

**Defense Information Infrastructure (DII)
Common Operating Environment (COE)**

**Software Test Description (STD)
for the
METCAST Client (METCAST) Segment
Release 1.4**

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Prepared for:

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1 SCOPE

1.1 Identification

This Software Test Description (STD) describes the final acceptance testing procedures for the METCAST Client Segment of the METCAST data distribution software, Release 1.4 series, developed by Fleet Numerical Meteorology and Oceanography Center (FNMOC), Monterey, CA. This software is designed to run under the Defense Information Infrastructure (DII) Common Operating Environment (COE), release 3.1 or higher. The software runs under the following hardware and operating systems:

- Personal Computer (PC) running the Microsoft Windows NT 4.0 operating system with Service Pack 3 or higher.
- Tactical Advanced Computer, TAC-3 (HP 750/755) or TAC-4 (HP J210) or higher running the HP-UX operating system, release 10.20 or higher.
- Sun SPARC computer running the Sun Solaris operating system, release 2.6 or higher.

The Windows NT version will be released first, followed by the HP-UX and Solaris versions. This document covers testing of the Windows NT and Solaris versions only.

This document has been developed in accordance with the *DII COE Developer Documentation Requirements, Version 2.0*.

1.2 System Overview

METCAST is a standards-based, request-reply and subscription (channel) system for distributing weather information over the Internet using Hyper-Text Transfer Protocol (HTTP) and Multipurpose Internet Mail Extensions (MIME). The METCAST Client Segment includes a graphical user interface (GUI) to allow the user to select the products to be retrieved and the frequency and types of retrievals, and a retriever process that establishes communication with a METCAST server, submits a request for the data requested, and delivers the reply to the local user. The METCAST Server comprises a separate segment.

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2 REFERENCED DOCUMENTS

DDR-2 23 January 1998	<i>Defense Information Infrastructure (DII) Common Operating Environment (COE) Developer Documentation Requirements, Version 2.0</i> , Defense Information Systems Agency, Joint Operability and Engineering Organization
Unnumbered 15 June 1998	<i>Software Requirements Specification for METCAST</i> , Space and Naval Warfare Systems Command, Environmental Systems Program Office (SPAWAR PMW-185), San Diego, CA
fnmoc_METCAST_IP_14Series 8 September 2000	<i>Installation Procedures (IP) for the METCAST Client Segment, release 1.4 Series</i>
fnmoc_METCAST_UM_1400 8 September 2000	<i>User Manual (UM) for the METCAST Client Segment, release 1.4</i>

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3 TEST PREPARATION

Testing will be conducted at Fleet Numerical Meteorology and Oceanography Center (FNMOC), Monterey, CA. The following preparation applies to all tests described in this document.

3.1 Hardware Preparation

3.1.1 Hardware Identification

The following hardware will be used to conduct the testing at FNMOC:

- Dell Pentium III 500MHz, 128MB RAM, LAN connection
- Micron Pentium 233MHz, 96MB RAM, LAN connection
- Laser Printer (Black and White)
- Laser Printer (Color)

The PC configurations cover the minimum and recommended requirements for METCAST 1.4.

No special preparation of the hardware is necessary. Internet connections (LAN or dial-up, as applicable for the test computer) will be required.

3.1.2 Software Preparation

METCAST Client v1.4.0.x segment software shall be installed in accordance with the procedures in the *Installation Procedures for the METCAST Client Segment, Release 1.4 Series*, cited in Section 2.1. Access to the METCAST Servers FNMOC and ABS at FNMOC is also required.

3.1.3 Other Preparations

Each test shall use live data. A collection of data requests will be established for each type of data available, i.e., requests for realtime satellite observations, gridded data for various products and taus, flight plan data, etc. These data requests shall include nominal, maximum, and minimum values. The data requests serve as the baseline for inputs to do comparison of outputs among different PC configurations, other tested software, and for regression testing. If a function performs properly under all applicable test cases, then that function is considered to have passed.

4 TEST DESCRIPTIONS

4.1 Description of Test 1: Installation and Startup

This test verifies that the setup program correctly installs the METCAST Client software on the test machine, and that the program starts correctly following installation. Joint METOC Viewer (JMV) is also installed during the test procedure to provide a viewer capability for future tests.

4.1.1 Prerequisite Conditions

The test platform should be set up correctly for installation as described in the Installation Procedures. The test procedure includes the de-installation of any existing METCAST Client software.. The METCAST Client v1.4.x.x/JMV v3.4.x.x Installation CD-ROM must be available to the tester.

4.1.2 Test Inputs

The test operator will install the METOC Client v1.4 series software in accordance with the Installation Procedure, then open the METOC Requestor from its icon and configure the METCAST servers to be used for the tests. The step-by-step procedure is contained in the Test Data Sheets for Test 1 in Appendix A of this document.

4.1.3 Expected Test Results

Expected results for each step of the test are described in the Test Data Sheets.

4.1.4 Criteria for Evaluating Results

Criteria for evaluating test results are contained in the Test Data Sheets. In order to pass this test, the software must install correctly, start from the icon, and allow the operator to configure the METCAST servers to be used.

4.1.5 Test Procedure

The step-by-step procedure for conducting the test, with expected results of each step and criteria for evaluating the results, are provided in the Test Data Sheets for Test 1, located in Appendix A of this document. The Test Data Sheets also provide room to record results and comments.

4.1.6 Assumptions and Constraints

There are no assumptions or constraints for this test except that the test operator should be reasonably familiar with the test equipment, and that the test machine has access via network or dialup to the *FNMO*C server at FNMO*C*. This last is required for retrieval of the product catalog in the last portion of the test procedure.

4.2 Description of Test 2: Create and Manage Areas

This test verifies that the GUI functions correctly to allow the operator to define new areas of various types, delete an area definition, and replace (overwrite) an area definition.

4.2.1 Prerequisite Conditions

Conditions as of the end of Test 1 (METCAST Client correctly installed on the test machine).

4.2.2 Test Inputs

The test inputs consist of operator inputs to the GUI as described in the Test Data Sheets for Test 2, contained in Appendix A of this document.

4.2.3 Expected Test Results

Expected results for each step of the test are described in the Test Data Sheets.

4.2.4 Criteria for Evaluating Results

Criteria for evaluating test results are described in the Test Data Sheets. In order to pass this test, the software must allow the operator to perform all area creation and management functions properly.

4.2.5 Test Procedure

The step-by-step procedure for conducting the test, with expected results of each step and criteria for evaluating the results, are provided in the Test Data Sheets for Test 2, located in Appendix A of this document. The Test Data Sheets also provide room to record results and comments.

4.2.6 Assumptions and Constraints

There are no assumptions or constraints for this test except that the test operator should be reasonably familiar with the test equipment.

4.3 Description of Test 3: Select Products

This test verifies that the GUI correctly permits the selection of "standard" products (e.g. NOGAPS grids, satellite imagery, and all types of observations) for retrieval. All product selection functions will be exercised.

4.3.1 Prerequisite Conditions

This test begins with the ending conditions for Test 2. The NORTHLANT area must be defined as described in Test 2.

4.3.2 Test Inputs

The test operator will exercise the Product Selection user interface to select products including satellite imagery, gridded fields, and synoptic, METAR, TAF, and Upper Air observations. The step-by-step test procedure is contained in the Test Data Sheets for Test 3, which are located in Appendix A of this document.

4.3.3 Expected Test Results

Expected results for each step of the test are described in the Test Data Sheets.

4.3.4 Criteria for Evaluating Results

Criteria for evaluating test results are described in the Test Data Sheets. In order to pass this test, the software must function correctly to allow the operator to select all data types.

4.3.5 Test Procedure

The step-by-step procedure for conducting the test, with expected results of each step and criteria for evaluating the results, are provided in the Test Data Sheets for Test 3, located in Appendix A of this document. The Test Data Sheets also provide room to record results and comments.

4.3.6 Assumptions and Constraints

There are no assumptions or constraints for this test except that the test operator should be reasonably familiar with the test equipment.

4.4 Description of Test 4: Data Retrieval

This test verifies that the METCAST Client software is able to correctly retrieve specified products from a METCAST server using on-demand scheduling, interval scheduling, and retrieval of data at specified times.

4.4.1 Prerequisite Conditions

This test begins with the ending conditions from Test 3. The NORTHLANT area must be defined, and products selected, as described in Tests 2 and 3.

4.4.2 Test Inputs

The test operator will use the GUI to specify retrieval options for grids, observations, and satellite imagery, and then use the GUI to schedule retrieval of data for the NORTHLANT area and use the Retrieval Monitor and Area Status capabilities to observe the status of the request. This test will need to run for several hours to ensure that all retrieval scheduling options are executed properly. The step-by-step procedure is delineated in the Test Data Sheets for Test 4, located in Appendix A of this document.

4.4.3 Expected Test Results

Expected results for each step of the test are described in the Test Data Sheets.

4.4.4 Criteria for Evaluating Results

Criteria for evaluating test results are described in the Test Data Sheets. The software must successfully transmit the request to the server and retrieve the specified data in order for this test to be considered successful. If substitution of data is necessary, the Missing Data report should be correctly annotated for all substituted data. In addition, the Retrieval Monitor and Area Status functions must operate as specified.

4.4.5 Test Procedure

The step-by-step procedure for conducting the test, with expected results of each step and criteria for evaluating the results, are provided in the Test Data Sheets for Test 4, located in Appendix A of this document. The Test Data Sheets also provide room to record results and comments.

4.4.6 Assumptions and Constraints

There are no assumptions or constraints for this test except that the test operator should be reasonably familiar with the test equipment.

4.5 Description of Test 5: Define North Pole Area and Retrieve Products

This test provides further verification of the area definition GUI, testing of the product selection interface, and retrieval of products for a North Pole (polar stereographic projection) area.

4.5.1 Prerequisite Conditions

This test begins with the ending conditions from Test 5.

4.5.2 Test Inputs

The test operator will use the GUI to add a North Pole area, then select products for it. The area will then be scheduled, and the Retriever Monitor will be used to display the status of the retrievals. The step-by-step procedure is delineated in the Test Data Sheets for Test 5, located in Appendix A of this document.

4.5.3 Expected Test Results

Expected results for each step of the test are described in the Test Data Sheets.

4.5.4 Criteria for Evaluating Results

Criteria for evaluating test results are described in the Test Data Sheets. The software must correctly set up the new area, allow selection of products from multiple servers, successfully transmit the request to the server, and retrieve data from the specified servers in order for this test to be considered successful.

4.5.5 Test Procedure

The step-by-step procedure for conducting the test, with expected results of each step and criteria for evaluating the results, are provided in the Test Data Sheets for Test 5, located in Appendix A of this document. The Test Data Sheets also provide room to record results and comments.

4.5.6 Assumptions and Constraints

There are no assumptions or constraints for this test except that the test operator should be reasonably familiar with the test equipment.

4.6 Test 6: Select and Retrieve "Special" Grids

In this test the operator will select and retrieve NCEP, ECMWF, DAF, Flight Level, OTIS, STRATOI, TOPS, COAMPS, and WAM grids, if they are available from the server(s).

4.6.1 Prerequisite Conditions

This test begins with the ending conditions from Test 5.

4.6.2 Test Inputs

The test operator will use the GUI to create a COAMPS Europe area and select "special" products for it from both servers. The area will then be scheduled, and the Retriever Monitor will be used to display the status of the retrievals. The step-by-step procedure is delineated in the Test Data Sheets for Test 6, located in Appendix A of this document.

4.6.3 Expected Test Results

Expected results for each step of the test are described in the Test Data Sheets.

4.6.4 Criteria for Evaluating Results

Criteria for evaluating test results are described in the Test Data Sheets. The software must correctly set up the new area, allow selection of products from one server or multiple servers, successfully transmit the request to the server, and retrieve at the specified data from the specified servers in order for this test to be considered successful.

4.6.5 Test Procedure

The step-by-step procedure for conducting the test, with expected results of each step and criteria for evaluating the results, are provided in the Test Data Sheets for Test 6, located in Appendix A of this document. The Test Data Sheets also provide room to record results and comments.

4.6.6 Assumptions and Constraints

There are no assumptions or constraints for this test except that the test operator should be reasonably familiar with the test equipment.

4.7 Test 7: Rename An Area and Duplicate An Area

This test verifies the ability of the GUI to rename an area and to duplicate an area and its data.

4.7.1 Prerequisite Conditions

This test begins with the ending conditions from Test 6.

4.7.2 Test Inputs

The test operator will use the GUI to rename the COAMPS Europe area, and to duplicate the area and its products. The step-by-step procedure is delineated in the Test Data Sheets for Test 7, located in Appendix A of this document.

4.7.3 Expected Test Results

Expected results for each step of the test are described in the Test Data Sheets.

4.7.4 Criteria for Evaluating Results

Criteria for evaluating test results are described in the Test Data Sheets. The software must correctly set up the new area, allow selection of products from one server or multiple servers, successfully transmit the request to the server, and retrieve at the specified data from the specified servers in order for this test to be considered successful.

4.7.5 Test Procedure

The step-by-step procedure for conducting the test, with expected results of each step and criteria for evaluating the results, are provided in the Test Data Sheets for Test 7, located in Appendix A of this document. The Test Data Sheets also provide room to record results and comments.

4.7.6 Assumptions and Constraints

There are no assumptions or constraints for this test except that the test operator should be reasonably familiar with the test equipment.

4.8 Test 8: Retriever Monitor Functions

In this test the operator will start the retriever monitor, then commence a retrieval of various types of data. The Retriever Monitor's capability to start a sleeping session, stop a session, remove an active session, copy session logs to the clipboard, and close will be tested.

4.8.1 Prerequisite Conditions

This test begins with the ending conditions from Test 7.

4.8.2 Test Inputs

The test operator will start the Retriever Monitor, then use the GUI to schedule the NORTHLANT area, and the Retriever Monitor will be used to display the status of the retrievals and to control the retrieval sessions. The step-by-step procedure is delineated in the Test Data Sheets for Test 8, located in Appendix A of this document.

4.8.3 Expected Test Results

Expected results for each step of the test are described in the Test Data Sheets.

4.8.4 Criteria for Evaluating Results

Criteria for evaluating test results are described in the Test Data Sheets. The Retriever Monitor must function properly to start a sleeping session, stop a session, remove an active session, and copy session log data to the clipboard.

4.8.5 Test Procedure

The step-by-step procedure for conducting the test, with expected results of each step and criteria for evaluating the results, are provided in the Test Data Sheets for Test 8, located in Appendix A of this document. The Test Data Sheets also provide room to record results and comments.

4.8.6 Assumptions and Constraints

There are no assumptions or constraints for this test except that the test operator should be reasonably familiar with the test equipment.

4.9 Test 9: "Keep Service Alive" Test

This test verifies the correct operation of the "Keep Service Active" function, which permits the retriever to continue to function even after the operator has exited METCAST Requestor.

4.9.1 Prerequisite Conditions

This test begins with the ending conditions from Test 8.

4.9.2 Test Inputs

The test operator will schedule the NORTHLANT area, then select the "Keep Service Active" option from the Options menu and exit METCAST Requestor. The system should continue to operate and retrieve data as scheduled. After some period of time, the operator may restart METCAST Requestor and check the Retriever Monitor for evidence of retrieval activity continuing during the period when METCAST Requestor was not running. The step-by-step procedure is delineated in the Test Data Sheets for Test 9, located in Appendix A of this document.

4.9.3 Expected Test Results

Expected results for each step of the test are described in the Test Data Sheets.

4.9.4 Criteria for Evaluating Results

Criteria for evaluating test results are described in the Test Data Sheets. The retrieval activity must continue after the operator has exited METCAST Requestor in order for this test to be considered successful.

4.9.5 Test Procedure

The step-by-step procedure for conducting the test, with expected results of each step and criteria for evaluating the results, are provided in the Test Data Sheets for Test 9, located in Appendix A of this document. The Test Data Sheets also provide room to record results and comments.

4.9.6 Assumptions and Constraints

There are no assumptions or constraints for this test except that the test operator should be reasonably familiar with the test equipment.

4.10 Test 10: Specify, Retrieve, View, and Manage Bulletin Lists

This test verifies the correct operation of the Oceanographic Data Distribution-NAVOCEANCOM (ODD-N) bulletin list specification, retrieval, viewing, and management functions. These functions allow the user to specify lists of bulletins to retrieve from the Automated Weather Network (AWN), and to view the retrieved bulletins.

4.10.1 Prerequisite Conditions

This test begins with the ending conditions from Test 9. For the printing function tests, the test computer must have a PostScript printer assigned.

4.10.2 Test Inputs

The test operator will select a list of bulletins using the default “number to keep” setting and then schedule a download. When the download is complete, the operator will view the list of messages and use it to select individual bulletins and combinations of bulletins for viewing. While viewing the bulletins, the operator will verify that no more than the specified number of each bulletin are downloaded. The operator will then define another bulletin list with a different “number to keep” setting and verify that no more than the correct number of bulletins are downloaded for this list. The printing functions will also be tested. Finally, the operator will use the bulletin list management functions to duplicate, modify, and delete a bulletin list.

4.10.3 Expected Test Results

Expected results for each step of the test are described in the Test Data Sheets.

4.10.4 Criteria for Evaluating Results

Criteria for evaluating test results are described in the Test Data Sheets. The retrieval activity must continue after the operator has exited METCAST Requestor in order for this test to be considered successful.

4.10.5 Test Procedure

The step-by-step procedure for conducting the test, with expected results of each step and criteria for evaluating the results, are provided in the Test Data Sheets for Test 10, located in Appendix A of this document. The Test Data Sheets also provide room to record results and comments.

4.10.6 Assumptions and Constraints

There are no assumptions or constraints for this test except that the test operator should be reasonably familiar with the test equipment.

4.11 Test 11: Specify, Retrieve, View, and Manage Station Data Lists

This test verifies the correct operation of the Oceanographic Data Distribution-NAVOCEANCOM (ODD-N) Station observation data retrieval functions. These functions allow the user to specify lists of stations for which to retrieve observation data in encoded text form and which data to retrieve for each selected station, and to view the retrieved data. They also permit management of station lists.

4.11.1 Prerequisite Conditions

This test begins with the ending conditions from Test 10. For the printing function tests, the test computer must have a PostScript printer assigned.

4.11.2 Test Inputs

The test operator will select a list of stations using the default “number to keep” setting, select a data set to retrieve for each station, and schedule a download. When the download is complete, the operator will view the list of observation data retrieved. While viewing the bulletins, the operator will verify that the correct observation types are downloaded for each station, and that no more than the specified number of each observation type are downloaded for each station. The operator will then define another station list with a different product set and different “number to keep” setting and verify that the correct products and no more than the correct number of observations are downloaded for this list. The operator will also use the station list management functions to duplicate, modify, and delete a station list.

4.11.3 Expected Test Results

Expected results for each step of the test are described in the Test Data Sheets.

4.11.4 Criteria for Evaluating Results

Criteria for evaluating test results are described in the Test Data Sheets. The retrieval activity must continue after the operator has exited METCAST Requestor in order for this test to be considered successful.

4.11.5 Test Procedure

The step-by-step procedure for conducting the test, with expected results of each step and criteria for evaluating the results, are provided in the Test Data Sheets for Test 11, located in Appendix A of this document. The Test Data Sheets also provide room to record results and comments.

4.11.6 Assumptions and Constraints

There are no assumptions or constraints for this test except that the test operator should be reasonably familiar with the test equipment.

4.12 Test 12: Remote Areas, Remote Lists, and Remote Retriever Monitor

This test evaluates the remote areas and remote lists capabilities, which allow a user of METCAST Client on one machine to view area and list data downloaded on another machine on the network. It also evaluates the Remote Retriever Monitor, which allows a user on one machine to display the status of retriever sessions running on another machine on the network.

4.12.1 Prerequisite Conditions

This test requires two machines running METCAST Client on the same network. The machine performing the download must have access to a METCAST server in order to obtain data. The *jmvwin* directory (or whatever directory METCAST Client was installed in) on the machine performing the download must be shared (if in Windows) and mapped (Windows) or mounted (Solaris) as a network drive on the machine on which the test is to be performed. Procedures for mounting and mapping drives vary with the operating system and are not part of this test. In order to view the area's data, Joint METOC Viewer (JMV) v3.4.x.x must be installed on the test machine. JMV is included on the installation disk with METCAST Client and was installed during the procedures for Test 1.

4.12.2 Test Inputs

The test operator will perform the required steps to set up a remote area and a remote list, then open the remote area for viewing in JMV and the remote list for viewing in METCAST Client.

4.12.3 Expected Test Results

Expected results for each step of the test are described in the Test Data Sheets.

4.12.4 Criteria for Evaluating Results

Criteria for evaluating test results are described in the Test Data Sheets. The GUI for setting up a remote area must function properly, as must the display of the remote area icons. Finally, the capability to launch JMV by double-clicking the remote area icon, and to view the remote area data, must be successfully demonstrated.

4.12.5 Test Procedure

The step-by-step procedure for conducting the test, with expected results of each step and criteria for evaluating the results, are provided in the Test Data Sheets for Test 12, located in Appendix A of this document. The Test Data Sheets also provide room to record results and comments.

4.12.6 Assumptions and Constraints

There are no assumptions or constraints for this test except that the test operator should be reasonably familiar with the test equipment.

4.13 Test 13: METCAST-to-METCAST Transfers

This test evaluates the capability to load data into a local METCAST Server's database from a remote METCAST Server via METCAST Client.

4.13.1 Prerequisite Conditions

The test machine is a Sun workstation with both METCAST Client and METCAST Server properly installed, and with a connection (internet or LAN) to a remote METCAST Server having a populated database.

4.13.2 Test Inputs

The test operator will perform the required steps to:

- Clear the local METCAST Server's database.
- Replace the mailcap file for the METCAST Client with a special mailcap file that routes incoming data to the feed directories for the local METCAST Server.
- Using METCAST Client, create an area, select products to download, and schedule the area.
- Check the local METCAST Server database to verify that data were received.

4.13.3 Expected Test Results

Expected results for each step of the test are described in the Test Data Sheets.

4.13.4 Criteria for Evaluating Results

Criteria for evaluating test results are described in the Test Data Sheets. The test is considered successful if requested data are transferred successfully and ingested into the database of the local METCAST Server.

4.13.5 Test Procedure

The step-by-step procedure for conducting the test, with expected results of each step and criteria for evaluating the results, are provided in the Test Data Sheets for Test 13, located in Appendix A of this document. The Test Data Sheets also provide room to record results and comments.

4.13.6 Assumptions and Constraints

There are no assumptions or constraints for this test except that the test operator should be reasonably familiar with the test equipment.

4.14 Test 14: Quick weather

This test evaluates the functionality of the Quick weather software. Quick weather provides a lightweight client that allows quick downloads of observation data (METARs and TAFs) in WMO-encoded textual format via a simple interface.

4.14.1 Prerequisite Conditions

This test requires a Windows NT machine with the Quick weather program properly installed.

4.14.2 Test Inputs

The test operator will perform the required steps to:

- Start Quick weather and enter a user name and password to connect to the FNMOC server.
- Use Quick weather to specify stations and retrieve and view observation data for the designated stations.
- Print observation data from Quick weather

4.14.3 Expected Test Results

Expected results for each step of the test are described in the Test Data Sheets for Test 14, located in Appendix A.

4.14.4 Criteria for Evaluating Results

Criteria for evaluating test results are described in the Test Data Sheets. The test is considered successful if the user is able to configure Quick weather and request, retrieve, view, and print observation data.

4.14.5 Test Procedure

The step-by-step procedure for conducting the test, with expected results of each step and criteria for evaluating the results, are provided in the Test Data Sheets for Test 14, located in Appendix A of this document. The Test Data Sheets also provide room to record results and comments.

4.14.6 Assumptions and Constraints

There are no assumptions or constraints for this test except that the test operator should be reasonably familiar with the test equipment.

5 REQUIREMENTS TRACEABILITY

The table below provides requirements traceability between the METCAST Client SRS and the individual tests specified in this document. References are to the paragraph numbers in the SRS.

Table 5-1 Requirements Traceability

Test No.	SRS Para	Requirement Title
1	3.17	Packaging Requirements
2	3.2.2.2 3.4	Requests for Data by Geographic Area METCAST Internal Interface Requirements
3	3.2.2.2 3.2.2.3 3.2.2.4 3.4	Requests for Data by Geographic Area Requests for Transmission by Product Type Product Data Requester User Interface METCAST Internal Interface Requirements
4	3.2.1.4 3.2.2.1 3.2.2.2 3.2.2.3 3.2.2.4 3.3.2 3.3.3 3.4 3.5	Send Notice of Transmission Failure Requests for Scheduled Transmissions Requests for Data by Geographic Area Requests for Transmissions by Product Type Product Data Requester User Interface Database Interface Requirements TCP/IP Interface METCAST Internal Interface Requirements METCAST Internal Data Requirements
5	3.2.2.1 3.2.2.3 3.2.2.4 3.2.3 3.3.3 3.4 3.5.1	Requests for Scheduled Transmissions Requests for Transmissions by Product Type Product Data Requester User Interface METCAST Channel Architecture TCP/IP Interface METCAST Internal Interface Requirements Retriever Configuration File
6	3.2.1.4 3.2.2.1 3.2.2.2 3.2.2.3 3.2.2.4 3.3.2 3.3.3 3.4 3.5	Send Notice of Transmission Failure Requests for Scheduled Transmissions Requests for Data by Geographic Area Requests for Transmissions by Product Type Product Data Requester User Interface Database Interface Requirements TCP/IP Interface METCAST Internal Interface Requirements METCAST Internal Data Requirements

Table 5-1 Requirements Traceability

Test No.	SRS Para	Requirement Title
7	3.2.1.4 3.2.2.1 3.2.2.2 3.2.2.3 3.2.2.4 3.3.2 3.3.3 3.4 3.5	Send Notice of Transmission Failure Requests for Scheduled Transmissions Requests for Data by Geographic Area Requests for Transmissions by Product Type Product Data Requester User Interface Database Interface Requirements TCP/IP Interface METCAST Internal Interface Requirements METCAST Internal Data Requirements
8	3.2.2.2 3.4	Requests for Data by Geographic Area METCAST Internal Interface Requirements
9	3.2.1.1 3.2.1.3 3.2.1.4 3.2.2 3.2.3 3.2.4 3.3.3 3.4 3.5	TCP/IP Data Transfer Capability Retry Transmission of Product Send Notice of Product Transmission Failure Requests for Transmission of Data METCAST Channel Architecture Specification of Helper Applications TCP/IP Interface METCAST Internal Interface Requirements METCAST Internal Data Requirements
10	N/A	ODD-N requirements have been added since the SRS was completed.
11	N/A	ODD-N requirements have been added since the SRS was completed.
12	N/A	Remote Areas and Remote Retriever Monitor are new requirements added at user request.
13	3.2.1.4 3.2.2.1 3.2.2.2 3.2.2.3 3.2.2.4 3.3.2 3.3.3 3.4 3.5	Send Notice of Transmission Failure Requests for Scheduled Transmissions Requests for Data by Geographic Area Requests for Transmissions by Product Type Product Data Requester User Interface Database Interface Requirements TCP/IP Interface METCAST Internal Interface Requirements METCAST Internal Data Requirements

6 NOTES

COE	Common Operating Environment
DII	Defense Information Infrastructure
FNMOCC	Fleet Numerical Meteorology and Oceanography Center
GUI	Graphical User Interface
HTTP	Hyper-Text Transfer Protocol
IP	Installation Procedures
IP	Internet Protocol
JMV	Joint METOC Viewer
METCAST	METOC Broadcast
METOC	Meteorological and Oceanographic
MIME	Multipurpose Internet Mail Extensions
PC	Personal Computer
SRS	Software Requirements Specification
SVD	Software Version Description
T&E	Test and Evaluation
TCP	Transport Control Protocol
UM	User Manual

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7 DOCUMENTATION IMPROVEMENT AND FEEDBACK

Comments and other feedback on this document should be directed to the DII COE Hotline:

Phone: 703-735-8681

Fax.: 703-735-3080

Email: HotlineC@ncr.disa.mil

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APPENDIX A Test Data Sheets

This Appendix contains Test Data Sheets for the conduct of all testing of the METCAST Client. The Test Data Sheets provide step-by-step instructions for conducting each test, expected results of each step, evaluation criteria, a space for pass/fail annotation, and a space for comments. At the end of each Test Data Sheet there are guidelines for evaluating the test, a space for notes, and a space to note problems encountered during testing.

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Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification Test 1: Installation

Initial Conditions: IBM-compatible PC meeting minimum hardware requirements in METCAST Client Installation Procedures, running Windows NT 4.0 with Service Pack 3 and with access to a network with one or more METCAST servers accessible. METCAST Client installation CD-ROM ready. Steps 1 - 8 ensure that any previous installations of METCAST Client are removed before the installation is performed.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
	Click on the Start button.	Start menu pops up.			
2	Click on Programs in the Start menu.	Programs menu flies out.			
3	Look for a FNMOCS-PAWAR folder. If there is no such folder, proceed to step 9.				
4	Click on the FNMOCS-PAWAR folder.	Folder opens.			
5	If there is an icon for Uninstall METCAST in the folder, double-click on it to start uninstalling the existing METCAST Client.	Uninstall program runs. Remove Data Files dialog displayed.			
6	Click the radio button next to Yes, remove my data files.	Radio button "pushed"			
7	Click on the OK button to commence the uninstall process	Uninstall begins			
8	If a Remove Shared File dialog pops up, click on Yes to All , then click on Yes in the confirmation dialog	Uninstall proceeds. Uninstall Completed notification displayed at end.			
9	Click on the OK button to end the uninstall procedure.	Uninstall dialog closes.			

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification Test 1: Installation

Initial Conditions: IBM-compatible PC meeting minimum hardware requirements in METCAST Client Installation Procedures, running Windows NT 4.0 with Service Pack 3 and with access to a network with one or more METCAST servers accessible. METCAST Client installation CD-ROM ready. Steps 1 - 8 ensure that any previous installations of METCAST Client are removed before the installation is performed.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
9	Remove any floppy disks from the floppy drive. Insert the JMV 3.4.x.x/METCAST Client 1.4.x.x CD-ROM into the CD-ROM drive				
10	If autoplay is turned on, the JMV/METCAST installation splash screen will be displayed (Appendix B, Figure B.1-1). If the splash screen does not appear, skip to step 11.				
11	Perform steps 11- 17 only if the splash screen was not displayed when the CD-ROM was loaded. Click on the Start button.	Start menu pops up.			
12	Click on the Settings menu item.	Settings menu flies out.			
13	Click on Control Panel .	Control Panel displayed.			
14	Double-click on Add/Remove Programs .	Add/Remove Programs Properties dialog displayed.			
15	Click on the Install button.	Install Program From Floppy Disk or CD-ROM dialog displayed			

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification Test 1: Installation

Initial Conditions: IBM-compatible PC meeting minimum hardware requirements in METCAST Client Installation Procedures, running Windows NT 4.0 with Service Pack 3 and with access to a network with one or more METCAST servers accessible. METCAST Client installation CD-ROM ready. Steps 1 - 8 ensure that any previous installations of METCAST Client are removed before the installation is performed.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
16	Click on the Next button.	Windows searches for the installation program. Run Installation Program dialog displayed.	<drive letter>:\Setup.exe displayed		
17	Click on the Finish button.	JMV/METCAST Installation splash screen displayed (Appendix B, Figure B.1-1)			
18	Click on the Install Metcast Client button.	METCAST Client Setup Screen displayed (Appendix B, Figure B.1-2)			
19	Click on the Next button.	Proxy Settings dialog displayed (Appendix B, Figure B.1-3)			This dialog will not be displayed if no proxy is found on the test machine. If not, proceed to step 21.
20	Verify the proxy settings and click on the Next button.	Choose Destination Location screen displayed (Appendix B, Figure B.1-4)			
21	Click the Next button to accept the default settings. This will install METCAST Client in the default directory.	Select Components dialog (Appendix B, Figure B.1-5) displayed.			If the test machine does not have adequate space on the C: drive, you can change the drive letter before clicking the Next button. Do this by clicking the Browse button, then highlighting the drive letter in the box at the top and changing it to another drive.

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification Test 1: Installation

Initial Conditions: IBM-compatible PC meeting minimum hardware requirements in METCAST Client Installation Procedures, running Windows NT 4.0 with Service Pack 3 and with access to a network with one or more METCAST servers accessible. METCAST Client installation CD-ROM ready. Steps 1 - 8 ensure that any previous installations of METCAST Client are removed before the installation is performed.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
22	Ensure that the radio button for Overwrite existing mailcap file with new mailcap file is "pushed" and click on the Next button.	Installation commences. Installation progress displayed. On completion, Completed dialog (App. B, Fig. B.1-6) displayed			
23	Click to turn off the checkbox next to View README file now , then click the Finish button, and close any windows that remain open.	Setup program closes, returning you to Windows NT desktop.	METCAST Client icon displayed on desktop.		
24	Click on the Install JMV button.	JMV setup screen displayed.			
25	Click on the Next button.	Proxy Settings dialog displayed (Appendix B, Figure B.1-3)			This dialog will not be displayed if no proxy is found on the test machine. If not, proceed to step 27.
26	Verify the proxy settings and click on the Next button.	Choose Destination Location screen displayed (Appendix B, Figure B.1-4)			
27	Click on the Next button.	Choose Destination Location dialog displayed.	Dialog should show that a previous installation of METCAST client is present and prompt you to install JMV to the same directory.		

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification Test 1: Installation

Initial Conditions: IBM-compatible PC meeting minimum hardware requirements in METCAST Client Installation Procedures, running Windows NT 4.0 with Service Pack 3 and with access to a network with one or more METCAST servers accessible. METCAST Client installation CD-ROM ready. Steps 1 - 8 ensure that any previous installations of METCAST Client are removed before the installation is performed.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
28	Click on the Next button.	JMV installation proceeds.	JMV icon displayed on desktop after installation is completed.		
29	Click on the Exit button in the installation dialog.	Dialog closes.			
30	Double-click on the METCAST Client icon	User name/password prompt appears (App. B, Fig B.1-7)			
31	Click on the OK button.	Server Configuration dialog (App. B, Fig. B.1-8) displayed.	Default server settings appear as in figure.		
31	In the Username box, enter the user name for the testing installation. In the Password box, enter the password for this user name. Then click on the OK button.	Dialog closes, splash screen and "retrieving catalog" notification displayed. On completion, METCAST Requestor opens (App. B, Fig. B.1-9)	Program opens correctly from icon. Notice of product list retrieval displayed, then closed after list is retrieved.		

TEST EVALUATION:

Successful completion of this test requires correct installation of METCAST Client from the installation media, and successful startup of the program once installed. Installation of JMV is not actually part of the test; JMV is required only as a viewer for later testing.

NOTES:**PROBLEMS ENCOUNTERED DURING TESTING:**

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification:

Initial Conditions: METCAST Requestor open to initial screen (App. B, Fig. B.2-1)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
	Using the mouse, place the cursor over the leftmost button on the toolbar.	"Bubble Help" label "Create a New Area" appears after two seconds with mouse over button.	Bubble help label is shown.		
2	Click the New Area button.	Choose Area Type Dialog (Fig. B.2 – 2) appears.			
3	Select Satellite Areas .	Satellite Areas dialog (Fig. B.2 – 3) appears.			
4	Click the on the map at about 60N 40W.	N.Atlant Satellite area is highlighted (Fig. B.2 – 4).			
5	Click on the OK button.	Preview Area dialog (Fig. B.2 – 5) appears.	N.Atlant Satellite area is displayed.		
6	Click on the Save button.	Name an Area Dialog (Fig. B.2 – 6) appears.			
7	Enter NORTHLANT and click Create .	METCAST Requestor main screen is displayed showing new area (Fig. B.2 – 7)	Create button grayed out until name is entered.		
8	Click on the Create New Area button again.	Choose Area Type dialog (Fig. B.2 – 2) is displayed.			
9	Select North Pole .	North Polar Choose Area dialog (Fig. B.2 - 8) is displayed.			
10	Drag the selection box center and edges to encompass North American and click OK .	Preview Area dialog (Fig. B.2 – 9) appears.	North America area displayed.		

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification:

Initial Conditions: METCAST Requestor open to initial screen (App. B, Fig. B.2-1)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
11	Click on the Save button.	Name an Area dialog (Fig. B.2 – 6) appears.			
12	Enter North America and click Create .	METCAST Requestor main screen displayed showing North America area (Fig. B.2 – 10).	Icon map shows correct area.		
13	Click on the Create New Area button again.	Choose Area type dialog (Fig. B.2 – 2) appears.			
14	Select Mercator Projection .	Mercator Choose Area dialog (fig. B.2 – 11) appears.			
15	Drag the selection box to encompass North America (Fig. B.2 – 12) and click OK .	Preview Area dialog displayed showing area just selected.			
16	Click Save .	Name an Area dialog (Fig. B.2 – 6) appears.			
17	Enter North America.	Replace button active, Create button grayed.			
18	Click Replace .	METCAST Requestor main screen displayed showing new North America area (Fig. B.2 – 13).			
19	Click on the new North America icon.	Icon highlighted (Fig. B.2 – 14).			
20	Click on the Trash Can on the Toolbar.	Delete confirmation dialog (Fig. B.2 – 15) appears.			

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification:

Initial Conditions: METCAST Requestor open to initial screen (App. B, Fig. B.2-1)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
21	Click Delete .	METCAST Requestor main screen displayed without North America icon (Fig. B.2 – 7).			

TEST EVALUATION:

NOTES:

PROBLEMS ENCOUNTERED DURING TESTING:

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification:

Initial Conditions: METCAST Requestor Main Screen displayed with NORTHLANT area shown (Figure B.2-7)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
1	Click on the NORTHLANT icon to highlight it.	NORTHLANT icon highlighted (Fig. B.3 – 1).	All toolbar buttons are activated.		
2	Place the cursor over the third button from the left in the toolbar.	Bubble help label “Assign products to the selected area” appears.			
3	Click on the “Assign products” button.	Choose Products dialog appears (Fig. B.3 – 2).			
4	Click on Grids: US Navy - FNMOC	FNMOC Grids List displayed (Fig. B.3 – 3).			
5	Click the NOGAPS entry in the Models box	NOGAPS fields displayed in the Products box (Fig. B.3 – 4).			Actual Products displayed may be different from the figure -- the list displayed depends upon what's available from the server.
6	Click on the Full List radio button at the top of the dialog.	Additional NOGAPS fields displayed (Fig. B.3 – 5).			See note above.
7	Click on the Default Taus button at the bottom of the dialog.	Set Default Taus dialog displayed (Fig. B.3-6)			
8	Click on the Select All button.	All taus are marked with asterisks (Fig. B.3-7).			
9	Click on the Select None button.	Asterisks are cleared from all taus.			
10	Click the Cancel button.	Set Default Taus dialog closes.	No marks next to taus in the Product Selection dialog.		

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification:

Initial Conditions: METCAST Requestor Main Screen displayed with NORTHLANT area shown (Figure B.2-7)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
11	Click on the Default Taus button.	Set Default Taus dialog (Fig. B.3-6) displayed.			
12	Click once each on the 0, 12, 24, 36, and 48 taus.	Selected taus marked with asterisks (Fig. B.3-8).			
13	Click on the OK button.	Set Default Taus dialog closes. Default taus just selected are marked with ">" in the Product Selection dialog (Fig. B.3-9)			
14	In the Parameters list, scroll down to the Height entry and click on it.	Height entry highlighted, list of available height grid levels displayed in the Levels box (Fig. B.3-10).			
15	In the Levels box, click once on 500 MB to highlight it, then click on it again to select it.	Entries for default taus are marked with asterisks in the Taus box (Figure B.3-11).			Selection requires two distinct clicks, NOT a double-click.
16	In the Parameters list, scroll down to the Surface Pressure entry and click on it.	Surface Pressure selection options displayed (Figure B.3-12).			
17	Click on the surface entry in the Levels box.	Selected level and default taus marked with asterisks (Fig. B.3-13)			
18	Click again on the surface entry in the Levels box.	All asterisks are cleared, indicating selections have been toggled off.			
19	In the Taus box, click twice on individual taus. Include at least one non-default tau.	Selected taus are highlighted (Fig. B.3-14).			

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification:

Initial Conditions: METCAST Requestor Main Screen displayed with NORTHLANT area shown (Figure B.2-7)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
20	In the Parameters box, scroll down to the Wind entry and click on it.	Wind selections displayed (Figure B.3-15).			
21	Click twice each on 10.0 m and 500 MB in the Levels box.	Default taus for selected levels are marked with asterisks (Figure B.3-16).			Winds will not be available unless both u and v components are available from the server. If these selections are not listed, skip this step.
22	In the Type/Center box, click on Imagery .	Imagery selections displayed (Figure B.3-16)			If imagery is not available from the server, this step may be skipped. It should, however, be repeated when imagery is available in order to test retrieval of imagery).
23	If there are images shown in the Products box, click twice on at least one to select it.	Selected images marked with asterisks (Figure B.3-17).			
24	In the Type/Center box, click on Text Products .	Text products list displayed (Fig. B.3-18).			
25	Click twice on each unselected item to select it.	All selections in the Model/Area box are marked with asterisks.			
26	Click on the Show Selected button.	Selected Products list displayed (Fig. B.3-19).	All products selected in the steps above are shown in the list.		
28	Click the Close icon (X icon in the upper right corner of the window) to close the Selected Products list	Selected Products list closes.			

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification:

Initial Conditions: METCAST Requestor Main Screen displayed with NORTHLANT area shown (Figure B.2-7)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
29	Click the OK button.	METCAST Requestor screen appears.			

TEST EVALUATION:

This test is successful if default time selections work properly, changing of default times works, single times can be checked, and all GUI functions for product selection work properly.

NOTES:

PROBLEMS ENCOUNTERED DURING TESTING:

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification: Test 4: Data Retrieval

Initial Conditions: Conditions at the end of Test 3 (METCAST Requestor main window displayed, NORTH LANT area icon shown, products selected per Test 3.)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
	Click on Options in the menu bar.	Options menu drops down.			
2	Click on Servers... in the Options menu.	Network servers dialog displayed (Fig. B.4 – 1), with FNMO selected.			FNMO is the operational server at FNMO, and is installed by default
3	Click on the Edit button.	Server Configuration dialog displayed (Fig. B.4-2).			
4	Click the Request Setup radio button.	Request Setup dialog (Fig. B.4-3) displayed.			
5	Ensure that Gridded is shown in the Product Type box and click the On Demand radio button.	On Demand radio button "pushed" (Fig. B.4-3)			
6	Select Observations from the Product Type list.	Observations options displayed (Fig. B.4-4).			
7	Ensure that the Request Updates Every (Minutes) radio button is selected and enter 15 in the entry box next to it.	Selections displayed.			
8	Ensure that the Only Get Data Modified Within (Minutes) checkbox is highlighted and change the entry in its entry box to 60.	Selections displayed. The dialog should now look like Fig. B.4-5.			
9	Select Imagery from the Product Type list.	Request scheduling options for imagery displayed (Fig. B.4-6).			

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification: Test 4: Data Retrieval

Initial Conditions: Conditions at the end of Test 3 (METCAST Requestor main window displayed, NORTHLANT area icon shown, products selected per Test 3.)


Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
10	Click on the Scheduled radio button.	Time entry box and Add >> button become active.			
11	In the entry box below the Add >> button, type XX00 . Click the Add >> button.	XX00 appears in the list box on the right.			
12	Repeat step 11 to add XX15, XX25, XX30, and XX45.	Selected times displayed in list box.			
13	Highlight XX25 in the list box and click on the << Remove button.	XX25 is removed from the list. Dialog now looks like Fig. B.4-7.			
14	Click on the Close button.	Request Setup dialog closes; Server Configuration dialog displayed.			
15	Click on the OK button.	Server Configuration dialog closes; Network Servers dialog displayed.			
16	Click on the Close button.	Network Servers dialog closes; METCAST Requestor screen displayed.			
17	If the NORTHLANT area is not already highlighted in red, click on it to highlight it.	NORTHLANT area icon highlighted (Fig. B.4-8)			

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification: Test 4: Data Retrieval

Initial Conditions: Conditions at the end of Test 3 (METCAST Requestor main window displayed, NORTH LANT area icon shown, products selected per Test 3.)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
18	Click on the Schedule/Unschedule  Area icon in the toolbar.	Red check mark displayed over the NORTH LANT area icon (Fig. B.4-9). Retriever Monitor icon (cloud on a blue field) in the System Tray shows a flashing lightning bolt below the cloud.			
19	Double-click on the Retriever Monitor icon (a cloud on a blue background) in the System Tray (the group of small icons at the far right end of the Windows toolbar).	Splash screen displayed, then Retriever Monitor opens (Fig. B.4-10).	Assuming that all 3 data types were selected in Test 3, the Retriever Monitor should show one entry for FNMOC1 and 3 for NORTH LANT, one for the Gridded Data Domain, one for Observations, and one for Imagery.		
20	Highlight the entry for the Gridded Data Domain and click on the Details >> button .	Retrieval details displayed (Fig. B.4-11).			
21	Leave the Retriever Monitor open. As each retrieval is completed, the line for that Data Domain will disappear.	Gridded and Imagery lines disappear. Observations line remains after retrieval is complete but is marked "Sleeping".			
22	In the METCAST Requestor screen, with the NORTH LANT area still highlighted, click on the Area item in the menu bar, then click on the Status entry in the drop-down menu.	Area status window displayed (Fig. B.4-12).	Newly retrieved products displayed in red.		

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification: Test 4: Data Retrieval

Initial Conditions: Conditions at the end of Test 3 (METCAST Requestor main window displayed, NORTHLANT area icon shown, products selected per Test 3.)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
23	Wait until the next scheduled time for an Imagery retrieval (on the hour or 15, 30, or 45 minutes after the hour), and check the Retriever Monitor.	Retrieval line for Imagery Data Domain is displayed.			The line may display only briefly, if there is no new data available for retrieval.
24	Wait until 15 minutes after the last retrieval of Observations and check the Retriever Monitor.	Observations retrieval starts again (Operation column changes from "Sleeping" to "Requesting").			
25	Check the Area Status window.	If any new observations are retrieved, they should be displayed in red, while the older data will be displayed in blue.			
26	Click the Close icon in the Area Status window to close it.	Area Status window closes.			
27	Click the Close button on the Retriever Monitor to close it.	Retriever Monitor closes.			
28	In the METCAST Requestor, right-click on the NORTHLANT area icon and then click on the Schedule option in the context menu that pops out.	Red check disappears from the NORTHLANT area icon, indicating that it is no longer scheduled.			

TEST EVALUATION:

NOTES:


PROBLEMS ENCOUNTERED DURING TESTING:

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification: Test 5: Retrievals for a Polar Area

Initial Conditions: Ending conditions from Test 4 (METCAST Requestor open, FNMOC1 server set up)


Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
	Click on the Create a New Area  button in the toolbar	Choose Area Type dialog (Fig. B.5-1) displayed.			
2	Click on the North Pole button.	North Pole area definition screen (Fig. B.5-2) displayed.			
3	Move the cursor into the area definition box.	Pointer changes to a 4-headed arrow.			
4	Press and hold the left mouse button and move the mouse to "drag" the box over North America. Then release the mouse button.	Box is now over North America.			
5	Move the mouse onto a border of the box.	Pointer changes to a 2-headed diagonal area.			
5	Press and hold the left mouse button and move the mouse to drag the border. Then release the mouse button.	Box is resized.			
6	Repeat steps 4 and 5 until the box is aligned as shown in Figure B.6-3	Selection screen looks like Fig. B.5-3.			
7	Click on the OK button.	Area Definition window closes, Preview Area window displayed (Fig. B.5-4)			
8	Click the Save button	Name an Area dialog displayed (Fig. B.5-5).			

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification: Test 5: Retrievals for a Polar Area

Initial Conditions: Ending conditions from Test 4 (METCAST Requestor open, FNMOC1 server set up)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
9	In the Enter Area Name entry box, type North America Polar.	Create button is activated.			
10	Click on the Create button.	Name an Area dialog closes, METCAST Requestor screen displayed showing new icon for North America Polar area (Fig. B.5-6).			
11	With the North America Polar area highlighted, click on the Assign  Products on the toolbar.	Product Selection dialog displayed (Fig. B.5-7).	Entries for FNMOC1 are displayed.		
12	Click on GRIDS: US Navy - FNMOC .	FNMOC Grids selections displayed (Fig. B.5-8).			
13	In the Models box, click on NOGAPS .	NOGAPS selections displayed (Fig. B.5-9).			
14	In the Parameters box, scroll down to Temperature and click on it.	NOGAPS temperature selections displayed (Fig. B.5-10).	Default taus identified by >.		
15	In the Levels box, click twice each on 2.0 m , 1000 MB , and 500 MB .	Selections, and the associated default taus, are marked with asterisks (Fig. B.5-11)			
16	In the Products box, scroll down to Surface Pressure and click on it.	Surface pressure selections displayed.			
17	Click on surface in the Levels box.	Selection and associated default taus are marked with asterisks.			

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification: Test 5: Retrievals for a Polar Area

Initial Conditions: Ending conditions from Test 4 (METCAST Requestor open, FNMOC1 server set up)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
18	In the Type/Center box, click on Text Products .	Text Products selections displayed (Fig. B.5-12).			
19	Click on each of the available products.	Each selected product is marked with an asterisk (Fig. B.5-13).			
20	Click on the OK button.	Product Selection dialog closes.			
21	Double-click on the Retriever Monitor icon (cloud on a blue background) in the Windows system tray.	Splash screen displayed, then Retriever Monitor opens.			
22	In the METCAST Requestor window, ensure that the North America Polar area is highlighted and click on the Schedule/Unschedule button on the toolbar.	Red check appears over North America Polar icon. In the Retriever Monitor, retrieval sessions are shown for all data types selected (Fig. B.5-14).	All retrievals complete successfully.		

TEST EVALUATION:

This test is successful if the tester is able to retrieve multiple products from multiple servers as specified.

NOTES:**PROBLEMS ENCOUNTERED DURING TESTING:**

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 6: Select and Retrieve "Special" Grids

Initial Conditions: Ending conditions from Test 5 (METCAST Requestor screen displayed)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
1	Click on the Create a New Area icon on the toolbar.	Choose Area Type dialog displayed.			
2	Click on the Special Areas button.	Define Area dialog for special areas displayed (Fig. B.6-1).			
3	Click on the outline of the COAMPS_Eur area to highlight it. This area is the small box over Europe.	COAMPS_Eur area highlighted (Fig. B.6-2)			
4	Click on the OK button.	Define Area Dialog closes, Preview Area dialog opens showing the area (Fig. B.6-3).			
5	Click on the Save button.	Preview Area dialog closes, Name an Area dialog opens.			
6	In the Area Name box, type COAMPS Europe , then click the Create button.	Name an Area dialog closes, METCAST Requestor screen displayed showing new area (Fig. B.6-4)			
7	Ensure that the COAMPS Europe area is highlighted and click on the Assign Products button on the toolbar.	Product Selection dialog displayed.			
8	Click on Grids: US Navy - FNMOC in the Type/Center box.	FNMOC Grids list displayed (Fig. B.6-5).			
9	If COAMPS_Eur does not appear on the Models list, skip to Step11 . If it appears on the list, click on COAMPS_Eur .	COAMPS_Eur products displayed (Fig. B.6-6).			

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 6: Select and Retrieve "Special" Grids

Initial Conditions: Ending conditions from Test 5 (METCAST Requestor screen displayed)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
10	Select at least 3 COAMPS_Eur parameters/levels for retrieval.	Selected products marked with asterisks.			
11	If DAF does not appear in the Models list, skip to Step 14. If it appears on the list, click on DAF .	DAF products displayed			
12	In the Parameters box, click on Relative Humidity.	DAF Relative Humidity products displayed (Fig. B.6-7).			
13	Click twice on at least 2 levels to select them.	Default taus for selected areas marked with asterisks.			
14	If Flight Level does not appear in the Models box, skip to Step 16. If it does appear, click on it.	Flight Level products displayed (Fig. B.6-8)			
15	Select at least one level for any Flight Level parameter.	Default taus for selected area(s) marked with asterisks.			
16	If ENSEMBLE does not appear in the Models box, skip to Step 18. If it does appear, click on it.	ENSEMBLE products displayed (Fig. B.6-9)			
17	Select at least one level for each available ENSEMBLE product.	Default taus for selected products marked with asterisks.			
18	If OTIS does not appear in the Model/Area box, skip to Step 20. If it does appear, click on it.	OTIS Products displayed (Fig. B.6-10).			
19	Select at least one level for Temperature.	Default taus for selected levels marked with asterisks.			

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 6: Select and Retrieve "Special" Grids

Initial Conditions: Ending conditions from Test 5 (METCAST Requestor screen displayed)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
20	If STRATOI does not appear in the Model/Area box, skip to Step 22. If it does appear, click on it.	STRATOI Products displayed (Fig. B.6-11).			
21	Select at least one level for any STRATOI product.	Default taus for selected level(s) marked with asterisks.			
22	If TOPS does not appear in the Model/Area box, skip to Step 24. If it does appear, click on it.	TOPS products displayed (Fig. B.6-12).			
23	Select at least one level of one TOPS product.	Default taus for selected level(s) marked with asterisks.			
24	If WAM does not appear in the Model/Area box, skip to Step 26. If it does appear, click on it.	WAM products displayed (Fig. B.6-13).			
25	Select at least one level for one WAM product.	Default taus for selected level(s) marked with asterisks.			
26	If Grids: US WeatherService - NCEP does not appear in the Type/Center box, skip to Step 29. If it does appear, click on it.	NCEP Products displayed (Fig. B.6-14).			
26	Select any NCEP model in the Models box.	Products for selected model displayed.			
27	Select any product in the Parameters list.	Levels and taus available for selected product displayed.			
28	Select at least one level for the selected product.	Default taus for selected level(s) marked with asterisks.			

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 6: Select and Retrieve "Special" Grids

Initial Conditions: Ending conditions from Test 5 (METCAST Requestor screen displayed)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
29	Click on the OK button.	Product Selection dialog closes, METCAST Requestor screen displayed.			
30	Double-click on the Retriever Monitor icon in the system tray.	Retriever Monitor displayed.			
31	With the COAMPS Europe area still highlighted, click on the Schedule/Unschedule button on the toolbar	Red check appears over COAMPS Europe icon. Gridded retrievals are displayed in the Retriever Monitor (Fig. B.6-15).	Retrievals complete successfully.		
32	Click on the Close button in the Retriever Monitor	Retriever Monitor closes.			

TEST EVALUATION:

The software must correctly set up a "Special" area, allow selection of special products, schedule the request, and retrieve the requested data for this test to be considered successful. Note that not all product types will be available for a given area; it is merely expected that the software will retrieve those products listed as available.

NOTES:

PROBLEMS ENCOUNTERED DURING TESTING:

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 7: Rename an Area and Duplicate an Area

Initial Conditions: Ending conditions from Test 6 (METCAST Requestor screen displayed, NORTHLANT and North America Polar areas available)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
1	Click on the NORTHLANT area icon to highlight it.	NORTHLANT area icon highlighted.			
2	Click on Area in the menu bar.	Area menu displayed.			
3	Click on Rename Area...	Rename Area dialog displayed (Fig. B.7-1).			
4	Type North Atlantic in the entry box at the bottom and click the OK button.	Rename Area dialog closes, METCAST Requestor displays area as North Atlantic (Fig. B.7-2).			
5	Right-click on any area icon.	Context menu pops up for the area.			
6	Click on Duplicate Area... in the context menu.	Copy an Area dialog (Fig. B.7.3) displayed.			
7	Type Test 7 in the entry box at the bottom of the Copy an Area dialog..				
8	In the Copy an Area dialog, double-click the North Pacific Polar icon.	Copy an Area dialog closes, METCAST Requestor shows new area Test 7 with same icon map as North Pacific Polar (Fig. B.7-4).			

TEST EVALUATION:

This test is successful if the Rename Area and Duplicate Area functions work as specified.

NOTES:**PROBLEMS ENCOUNTERED DURING TESTING:**

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 8: Retriever Monitor Functions

Initial Conditions: Ending conditions from Test 7 (METCAST Requestor screen displayed, North Atlantic area icon available)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
1	Click on the North Atlantic area icon to highlight it.	Icon highlighted.			
2	Double-click on the Retriever Monitor icon in the system tray.	Splash screen displayed, then Retriever Monitor opens (Fig B.8-1).	Status of catalog retrievals shown.		
3	Select one of the "Sleeping" catalog retrievals and click on the Start button.	Operation entry for selected session changes from "Sleeping" to "Requesting" (Fig. B.8-2).			
4	In the METCAST Requestor window, click on the Schedule/Unschedule button on the toolbar.	Red check appears over North America icon. Retriever Monitor displays progress in Retriever Monitor (Fig. B.8-3).			
5	Select any active or sleeping retrieval session and click on the Stop button.	Operation entry for selected session changes to "Stopped" (Fig. B.8-4)			
6	Click on the Start button.	Operation entry for selected session changes from "Stopped" to "Requesting".			
7	Click on the Remove button.	Selected session is removed and is no longer displayed in the Retriever Monitor.			
8	In the Retriever Monitor, click Edit on the menu bar.	Edit menu pops down.			

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 8: Retriever Monitor Functions

Initial Conditions: Ending conditions from Test 7 (METCAST Requestor screen displayed, North Atlantic area icon available)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
9	Click on the Copy selection in the Edit menu.	Copy menu displayed.			
10	Click on Event Log to Clipboard in the Copy menu.	Menu closes.			
11	Click on the Windows Start menu button.	Start menu pops up.			
12	Click on Run near the bottom of the Start menu.	Run dialog opens.			
13	In the Open box, type notepad .	Windows notepad opens.			
14	In Notepad, click on Edit in the menu bar.	Edit menu opens.			
15	In the Edit menu, click Paste .	Data from clipboard are pasted into Notepad. The results should look something like Fig. B.8-5.			
16	Click on File in the Notepad menu bar.	File menu drops down.			
17	Click on Exit in the File menu.	Confirmation dialog pops up.			
18	Click on No in the confirmation dialog.	Confirmation dialog and Notepad close.			
19	In the Retriever Monitor, click on the Close button.	Retriever Monitor closes.			

TEST EVALUATION:

This test is successful if all Retriever Monitor functions are performed correctly as specified.

NOTES:**PROBLEMS ENCOUNTERED DURING TESTING:**

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 9: "Keep Service Alive" Test

Initial Conditions: Ending conditions from Test 8 (METCAST Requestor screen displayed)

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
1	In the METCAST Requestor, click on any area to highlight it.	Area icon highlighted.			
2	Click on the Schedule/Unschedule button in the toolbar to schedule the area.	Red check mark appears over area icon, retrievals commence.			
3	Click on Options on the menu bar.	Options menu drops down.			
4	Click on Keep Service Active in the Options menu.	Menu closes.			
5	Close METCAST Requestor by pulling down the File menu and selecting Quit .	METCAST Requestor closes.	Retriever Monitor icon remains in the system tray.		
6	Wait at least 30 minutes, then open the Retriever Monitor by double-clicking its icon in the system tray.	Retriever Monitor opens.			
7	Retriever Monitor should show evidence of recent activity for recurring requests (e.g. imagery and satellites)	Retriever Monitor shows recent activity.			
8	Click the Close button to close the Retriever Monitor.	Retriever Monitor closes.			

TEST EVALUATION:

This test is considered successful if there is evidence that retrieval and processing of data continued while METCAST Requestor was shut down.

NOTES:


PROBLEMS ENCOUNTERED DURING TESTING:

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification:

Initial Conditions:

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
	Click on the Create  List button in the toolbar.	Create New List dialog (Appendix B, Figure B.10-1) displayed.			
2	Ensure that the Bulletin List radio button is selected. Type “Test 10 Bulletin List” in the entry box and then click on the OK button.	Edit Bulletin List dialog (Figure B.10-2) displayed.	Bulletin description shown in box below the Bulletin/Originator Name entry box.		
3	With the Bulletin Name radio button checked at the top of the dialog, place the cursor in the entry box and type “ABUS”	List box scrolls as operator types, shows first ABUS entry highlighted when typing is complete. (Figure B.10-3).	List box scrolls as operator types; correct entry highlighted. Complete bulletin name (not just ABUS) shown in entry box.		Bulletin description should also be shown in the description box.
4	Click on the right-pointing arrow button between the two list boxes.	First ABUS entry is moved into the Selected Bulletins list (Figure B.10-4)	Next entry is highlighted in the Available Bulletins list and displayed in the entry box.		
5	Click on the left-pointing arrow button between the two list boxes.	First ABUS entry is moved back into the Available Bulletins list and is no longer shown in the Selected Bulletins list.	First ABUS entry is again highlighted and displayed in the entry box (Figure B.10-3).		

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification:

Initial Conditions:

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
6	Click on the right-pointing arrow button between the two list boxes.	First ABUS entry is moved into the Selected Bulletins list (Figure B.10-4)	Next entry is highlighted in the Available Bulletins list and displayed in the entry box.		
7	Click on the Originator radio button at the top of the dialog. This re-sorts the Available Bulletins dialog in order of Bulletin Originators (the last 4 characters of each bulletin name).	Available Bulletins list re-sorted (Figure B.10-5).	Entries currently in the Selected Bulletins list are not lost.		
8	Type "KWBC" in the entry box.	List scrolls as operator types, ends with first KWBC entry highlighted (Figure B.10-6).	Originator name is now shown in the entry box <i>before</i> the bulletin name.		
9	Click on the right-facing arrow button between the list boxes to move the highlighted entry into the Selected Bulletins list.	First KWBC entry is moved to the Selected Bulletins list.	Next entry is highlighted in the Available Bulletins list and displayed in the entry box. Entries in the Available Bulletins list are sorted by Bulletin Name.		

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification:

Initial Conditions:

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
10	Click on the left-facing, double-headed arrow between the list boxes.	All entries in the Selected Bulletins list are moved back into the Available Bulletins list.	First entry selected (in this case, the first ABUS entry) is highlighted in the Available Bulletins list and displayed in the entry box.		
11	Repeat Steps 3 and 4 and 7-9 to move the two selected bulletins back into the Selected Bulletins list.	Selected Bulletins list shows the two selected entries.			
12	Click on the Bulletin Name radio button, then move the cursor into the entry box and type "WS%". The percent sign is a wild card character representing any string of characters following WS.	WS% displayed in entry box (Figure B.10-7).	No entries highlighted in Available Bulletins list.		
13	Click on the right-pointing arrow between the list boxes to move the wild card selection into the Selected Bulletins list.	WS% appears in the Selected Bulletins list (Figure B.10-8).			

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification:

Initial Conditions:

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
14	Click on the OK button to save the list.	Test 10 Bulletin List appears in the Lists section of the METCAST Requestor Screen.			
15	Right-click on the Test 10 Bulletin List icon and select Schedule from the pop-up list.	Red check mark appears over the list icon; Retriever Monitor icon shows flashing lightning bolt indicating download in progress.	Download completes successfully.		
16	When the download is completed (lightning bolt disappears from the Retriever Monitor icon), double-click on the Test 10 Bulletin List icon.	Bulletins/Stations dialog appears, showing bulletins downloaded (Figure B.10-9).			
17	Click the Print All button.	All downloaded bulletins are printed on the default printer.			
18	Select a range of bulletin names by clicking on the first name in the range, pressing and holding the Shift key, and clicking on the last name in the range.	Range of names selected (Figure B.10-10).			

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification:

Initial Conditions:


Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
19	Leaving the selected range selected, select another name outside the range by pressing the Ctrl key and then clicking on the desired name.	Range plus additional station selected (Figure B.10-11).			
20	Click on the Print Selected button.	Selected bulletins are printed on the default printer.	Only selected bulletins are printed.		
21	Click on the Display Selected button.	Selected bulletins are displayed in a text editor (Figure B.10-12)			Text editor used in the Solaris version is slightly different but with similar functionality.
21	Close the text editor window by pulling down the File menu and selecting Exit .	Text editor window closes.			
22	Click on the Display All button in the Bulletins/Stations dialog.	All downloaded bulletins displayed in the text editor.			
23	Close the text editor window by pulling down the File menu and selecting Exit .	Text editor window closes.			

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification:

Initial Conditions:

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
24	Click the Refresh button to refresh the list of downloaded bulletins.	If additional bulletins have been downloaded, the list will be refreshed and the new bulletins will be displayed			
25	Click the Close button to close the Bulletins/Stations dialog.	Dialog closes.			
26	Click on the Test 10 Bulletin List icon in the Lists section and then click on the Schedule/Unschedule button  in the toolbar.	Red check mark is removed from the Test 10 Bulletin List icon.			
27	Right-click on the Test 10 Bulletin List icon and select Duplicate List... from the pop-up menu.	Duplicate List dialog displayed (Figure B.10-13).			
28	Type “Copy” in the entry box and click the OK button.	“Copy” icon appears in the Lists section.			
29	Right-click on the Copy icon in the lists section and select Select Products... from the pop-up list.	Edit Bulletin List dialog displayed, showing selected bulletins.	Selected bulletins are the same as those selected for the Test 10 Bulletin List.		

Test Data Sheet for Test of

Date/Time of Test: _____ Tester: _____

Test Identification:

Initial Conditions:

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
30	Click the Cancel button to exit the dialog.	Edit Bulletin List dialog closes.			
31	Right-click on the Copy icon in the lists section and select Delete List... from the pop-up list.	Confirmation dialog appears (Figure B.10-14).			
32	Click on the Delete button.	Copy list is deleted from the lists section.			
33	Right-click on the Test 10 Bulletin List icon and select Rename List... from the pop-up menu.	Rename List dialog (Figure B.10-15) appears.			
34	Type "Test 10" in the entry box and click on the OK button.	List is renamed to Test 10.			

TEST EVALUATION:

NOTES:


PROBLEMS ENCOUNTERED DURING TESTING:

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 11: Specify, Retrieve, View, and Manage Station Data Lists

Initial Conditions: Ending conditions from Test 10

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
1	Click on the Create  List button in the toolbar.	Create New List dialog (Appendix B, Figure B.10-1) displayed.			
2	Ensure that the Station List radio button is selected. Type "Test 10 Station List" in the entry box and then click on the OK button.	Edit Station List dialog (Figure B.11-1) displayed.	OK button in Create New List dialog is "grayed out" until entry is made in the entry box, then the button is activated.		
3	Ensure that the METAR/SPECI , TAF , and Upper Air check boxes are checked at the top of the dialog. Type the ICAO call sign of a station (e.g. KMRY) in the Station Call Sign entry box. You can type in upper or lower case; lower case type should automatically be converted to upper case.	Available Stations list box scrolls as operator types, shows station name highlighted when complete.	List box scrolls as operator types; correct entry highlighted.		
4	Click on the right-pointing arrow button between the two list boxes.	Selected station call sign is moved into the Selected Stations list box (Figure B.11-2)	Next entry is highlighted in the Available Stations list.		

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 11: Specify, Retrieve, View, and Manage Station Data Lists

Initial Conditions: Ending conditions from Test 10

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
5	Click on the left-pointing arrow button between the two list boxes.	Station just selected is moved back into the Available Stations list and is no longer shown in the Selected Stations list.	Call sign of station just moved is still shown in the Station Call Sign entry box.		
6	Click on the right-pointing arrow button between the two list boxes.	Entry is moved back into the Selected Stations list.	Next entry is highlighted in the Available Stations list.		
7	Enter another station's call sign in the Station Call Sign entry box and press the Enter key. This is a "shortcut" method of entering stations into the list.	Station call sign is moved to the Selected Stations list box and is highlighted in the Station Call Sign entry box.	New entry is added to the Selected Stations list, entry is highlighted in the entry box.		
8	Type another station's call sign.	New call sign replaces the one currently shown in the Station Call Sign entry box.			
9	Press the Enter key.	New entry is moved to the Selected Stations list.			
10	Click on the left-facing, double-headed arrow between the list boxes.	All entries in the Selected Stations list are moved back into the Available Stations list.	Last entry selected is still displayed in the Station Call Sign entry box.		

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 11: Specify, Retrieve, View, and Manage Station Data Lists

Initial Conditions: Ending conditions from Test 10


Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
11	Repeat Steps 3 and 4 and 7-9 to move the three selected stations back into the Selected Stations list.	Selected Stations list shows the three selected entries.			
12	Add as many stations as desired to the Selected Stations list using the procedures above.				
13	Click on the Configure... button.	Configure List Request dialog (Figure B.11-3) displayed.			
14	Verify the default settings shown in Figure B.11-3.	Settings are as shown in the figure.			
15	Click on the OK button in the Configure List Request dialog.	Configure List Request dialog closes.			
16	Click on the OK button in the Edit Station List dialog.	Edit Station List dialog closes, station list data saved.	Test 10 Station List icon and name appear in the lists section of the METCAST Requestor.		

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 11: Specify, Retrieve, View, and Manage Station Data Lists

Initial Conditions: Ending conditions from Test 10

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
17	Right-click on the Test 10 Station List icon and select Schedule from the pop-up list.	Red check mark appears over the list icon; Retriever Monitor icon shows flashing lightning bolt indicating download in progress.	Download completes successfully.		
18	When the download is completed (lightning bolt disappears from the Retriever Monitor icon), double-click on the Test 10 Station List icon.	Reports from selected stations are displayed in a text editor (Figure B.11-4).	Verify that no more than 3 reports of each type from each selected station are displayed. List should also be sorted by report type and, within report types, by station call sign.		
19	Close the text editor window by pulling down the File menu and selecting Exit .	Text editor window closes.			
20	Click on the Test 10 Station List icon in the Lists section and then click on the Schedule/Unschedule  button in the toolbar.	Red check mark is removed from the Test 10 Station List icon.			

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 11: Specify, Retrieve, View, and Manage Station Data Lists

Initial Conditions: Ending conditions from Test 10

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
21	Right-click on the Test 10 Station List icon and select Duplicate List... from the pop-up menu.	Duplicate List dialog displayed (Figure B.10-13).			
22	Type "Copy" in the entry box and click the OK button.	"Copy" icon appears in the Lists section.			
23	Right-click on the Copy icon in the lists section and select Select Products... from the pop-up list.	Edit Station List dialog displayed, showing selected stations.	Selected stations are the same as those selected for the Test 10 Station List.		
24	Click the Cancel button to exit the dialog.	Edit Station List dialog closes.			
25	Right-click on the Copy icon in the lists section and select Delete List... from the pop-up list.	Confirmation dialog appears (Figure B.10-14).			
26	Click on the Delete button.	Copy list is deleted from the lists section.			
27	Right-click on the Test 10 Station List icon and select Rename List... from the pop-up menu.	Rename List dialog (Figure B.10-15) appears.			

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 11: Specify, Retrieve, View, and Manage Station Data Lists

Initial Conditions: Ending conditions from Test 10

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
28	Type “Test 10 Stations” in the entry box and click on the OK button.	List is renamed to Test 10 Stations.			
29	Right-click on the “Test 10 Stations” icon in the lists section and select Select Products... from the pop-up menu.	Edit Station List dialog displayed.			
30	Click on the Configure... button in the Edit Lists dialog.	Configure List Request dialog (Figure B.11-3) displayed.			
31	In the Report Versions to Keep entry box, replace the 3 with 2.				
32	Click on the OK button in the Configure List Request dialog.	Configure List Request dialog closes.			
33	Click on the OK button in the Edit Station List dialog.	Edit Station List dialog closes.			

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____ Tester: _____

Test Identification: Test 11: Specify, Retrieve, View, and Manage Station Data Lists

Initial Conditions: Ending conditions from Test 10

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
34	Right-click on the “Test 10 Stations” icon in the lists section and select Schedule from the pop-up menu.	Red check mark appears on the list icon. Retriever Monitor icon shows flashing lightning bolt when download begins.			
35	When the download has completed, double-click on the “Test 10 Stations” icon.	Station data displayed in text editor.	Only 2 reports of each type are displayed for each station.		
36	Close the text editor window by pulling down the File menu and selecting Exit .	Text editor window closes.			

TEST EVALUATION:

This test is considered successful if all actions can be performed as delineated above. This tests all functions of the Station List capability.

NOTES:

PROBLEMS ENCOUNTERED DURING TESTING:

Test Data Sheet for Test of

Date/Time of Test: _____

Tester: _____

Test Identification: _____

Initial Conditions: _____ JMV must also be installed on the test machine for the area display portion of the test.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
	In METCAST Requestor on the test machine, click on the Create a new area icon in the toolbar.	Choose Area Type dialog displayed.			
2	Click on the Remote Link button.	Remote Area Selection Dialog (Appendix B, Figure B.12-1) displayed.			
3	Click on the Add button.	Select Full Path dialog (Fig. B.12-2) displayed.			
4	In the large window, scroll down to the drive letter that is mapped to the jmvwin directory on the remote machine and click on it.	Drive letter appears in the top window (Fig. B.12-3).			
5	After the drive letter, enter "\\noddsfls" and click on the OK button.	Select Full Path dialog closes, Remote Area Selection dialog displays areas available on the remote machine (Fig. B.12-4).			

Test Data Sheet for Test of

Date/Time of Test: _____

Tester: _____

Test Identification: _____

Initial Conditions: _____ JMV must also be installed on the test machine for the area display portion of the test.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
6	Click on the first area to select it.	Red outline appears around area icon (Fig B.12-5).			
7	If there is only one area displayed, go to step 9.				
8	Hold down the Shift key, place the cursor over the last area, and click the mouse button. Release the Shift key.	All areas are selected (Fig. B.12-6)			
9	Hold down the Ctrl key and click on any of the selected area icons.	Area is deselected (Fig. B.12-7).			
10	With at least one area selected, click on the OK button.	Remote Area Selection dialog closes; remote areas are displayed in the METCAST Requestor (Fig. B.12-8)	Remote area icons are shown with a different background color than normal areas.		
12	Double-click on a remote area icon.	JMV Choose Products dialog displayed (Fig. B.12-9).	Products available for the selected area are shown.		

Test Data Sheet for Test of

Date/Time of Test: _____

Tester: _____

Test Identification: _____

Initial Conditions: _____ JMV must also be installed on the test machine for the area display portion of the test.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
13	Select and display one or more products.	Display shows products on remote area map.			
14	Close the JMV display by pulling down the File menu and selecting Exit .	JMV display closes.			
15	Open the Windows NT Start menu and select Programs , then FNMOCS-PAWAR , then Remote Retriever Monitor from the successive flyout menus.	Remote Retriever Monitor startup dialog (Fig. B.12-10) displayed.			
16	Select the appropriate operating system type for the remote machine and click the Next >> button..	Remote Retriever Monitor IP Address dialog (Fig. B.12-11) displayed.			
17	Enter the IP address for the remote machine and click the Next >> button.	Remote Retriever Monitor displayed (Fig. B.12-12).	Monitor displays activity on the remote machine.		

Test Data Sheet for Test of

Date/Time of Test: _____

Tester: _____

Test Identification: _____

Initial Conditions: JMV must also be installed on the test machine for the area display portion of the test.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
18	Close the Remote Retriever Monitor by pulling down the File menu and selecting Close .	Remote Retriever Monitor closes.			
19	Click on the Create List icon in the Tool Bar.	Create New List dialog (App. B, Fig. B.12-13) displayed.			
20	Select the Link To Remote List radio button.and then click the OK button.	Select Remote List dialog (App. B, Fig. B.12-14) displayed.	OK button disabled until a list is selected.		Remote lists must be shown in the Select Remote List box for this test to proceed.
21	Select a list and click the OK button.	OK button enabled when list is selected. On clicking OK button, dialog closes and METCAST Requestor screen shows remote list (App. B, Fig. B.12-15).	Remote list icon has yellow outline.		
22	Double-click on the remote list icon to open the list.	Depending on list type, Bulletin Selection dialog or list display opens.			
23	Close the list display.	METCAST Requestor screen displayed.			

TEST EVALUATION:

For this test to be evaluated as successful, the tester must be able to select at least one remote area and open it in JMV. The tester must also be able to successfully start the Remote Retriever Monitor and display status from the remote machine.

NOTES:**PROBLEMS ENCOUNTERED DURING TESTING:**


Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____

Tester: _____

Test Identification: Test 13: Loading Remote Data into a Local Database.

Initial Conditions: The test machine is a Sun workstation with both METCAST Client and METCAST Server properly installed, with a connection (internet or LAN) to a remote METCAST Server having a populated database.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
1	Change directory to /jmvwin/noddsfls, then type: "ls mailcap*".	This should verify that mailcap and mailcap_metcastfeed exist, along with other similar files.			There may be additional parent directories.
2	Backup mailcap file by typing "mv mailcap mailcap_jmv"	Renames original mailcap file.			The next two steps do not test METCAST software.
3	Type: "ls mailcap*" to confirm that new filename exists	Other filenames beginning with mail will also be listed.			
4	Type: "mv mailcap_metcastfeed mailcap".	This establishes new type of mailcap file.			
5	Click on Create a new area  icon in the toolbar.	Thumbnail appears in the METCAST Requestor.			
6	Enter Request Setup from either the drop-down menu or by right clicking over the area.	This brings up the Area Properties dialog box, with three Request Type options.			


Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____

Tester: _____

Test Identification: Test 13: Loading Remote Data into a Local Database.

Initial Conditions: The test machine is a Sun workstation with both METCAST Client and METCAST Server properly installed, with a connection (internet or LAN) to a remote METCAST Server having a populated database.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
7	Define the Product Type for all three selections under Request Type, using the radio buttons. If you choose the 2 nd or 3 rd options, use a short time interval, such as 5 minutes.	Product Type will become highlighted. Clicking the radio buttons will activate them, which is indicated by a dot.			After you complete the test, you might want to reconfigure Area Properties to have longer intervals. This will reduce processing time.
8	Click on Setup  to make your parameter selections.	Product Selection menu pops up			You can also right click on the thumbnail and scroll down through the drop-down menu, or use the menu bar.
9	From either the Full or Forecaster Lists, select a grids data source.	Selection will become highlighted and menu will expand.			
10	Select a model	Selection will become highlighted.			
11	Select a parameter such as pressure or heights.	Selection will become highlighted.			
12	Select a level	Selection will become highlighted.			

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____

Tester: _____

Test Identification: Test 13: Loading Remote Data into a Local Database.

Initial Conditions: The test machine is a Sun workstation with both METCAST Client and METCAST Server properly installed, with a connection (internet or LAN) to a remote METCAST Server having a populated database.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
13	Select valid time of data by clicking twice on one or multiple Taus selections, or alternatively by setting up the Default Taus, and then clicking twice on level.	Selected times will appear with an asterisk *. Selected times that are also taus defaults will be proceeded by *>.			It will not yet be necessary to click OK to move to the next step.
14	In Type/Center of Product Selection dialog box, select text.	Selection will become highlighted.			
15	Click twice on the following Products: SIGMET, METAR, TAF, and UAR.	Asterisks * will appear next to the products.			It will not yet be necessary to click OK to move to the next step.
16	Return to Type/Center and select Imagery	Selection will become highlighted.			This assumes that your server handles satellite imagery. If it doesn't you will need to add a server that does.
17	Select a satellite product by clicking twice	An asterisk * will appear next to the product selection and type.			


Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____

Tester: _____

Test Identification: Test 13: Loading Remote Data into a Local Database.

Initial Conditions: The test machine is a Sun workstation with both METCAST Client and METCAST Server properly installed, with a connection (internet or LAN) to a remote METCAST Server having a populated database.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
18	Click on OK	This will enter selections made for all data types.			
19	Click on the Schedule/Unschedule  Area icon in the toolbar.	A red check will appear over the area.			You can also use Area/List in the menu bar.
20	Log onto the METCAST database. Type dbaccess	This runs dbaccess program.			You will need to have a database account for certain operations.
21	Using the arrows select <i>Database</i> → <i>Select</i> → mdgrid_db → <i>Exit</i> → <i>Table</i> → <i>Info</i> → select a table <=>→ type s for status	This will display information about the table you selected, such as the creation date and number of rows.			→ means proceed to the next step. You may need to see your database administrator to delete old tables.

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____

Tester: _____

Test Identification: Test 13: Loading Remote Data into a Local Database.

Initial Conditions: The test machine is a Sun workstation with both METCAST Client and METCAST Server properly installed, with a connection (internet or LAN) to a remote METCAST Server having a populated database.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
22	Make sure the table selected was created on or after you created the area and that the number of rows exceeds 0.	As long as database was empty when you started, all grid tables should reflect test 13.			You may need to see your database administrator to clear any old tables.
23	Using the arrows, select <i>Database</i> → <i>Select</i> → <i>metcastdb</i> → <i>Exit</i> → <i>Table</i> → <i>Info</i> → <i>informix.obsmetar</i> <> → type s for status	This will display information about metars in the database, such as the creation date and number of rows in the table.			→ means proceed to the next step.
24	Make sure the table selected was created on or after you created the area and that the number of rows exceeds 0.	As long as database was empty when you started, all text tables should reflect test 13.			You may need to see your database administrator to clear any old tables.
25	Repeat steps 23 and 24 for Sigmet, TAFs, and UARs.	As long as database was empty when you started, all text tables should reflect test 13.			Table Names (informix.xxx): Sigmet: advsigmet TAF: fcsttafperiods UAR: obsualevels

Test Data Sheet for Test of METCAST Client

Date/Time of Test: _____

Tester: _____

Test Identification: Test 13: Loading Remote Data into a Local Database.

Initial Conditions: The test machine is a Sun workstation with both METCAST Client and METCAST Server properly installed, with a connection (internet or LAN) to a remote METCAST Server having a populated database.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
26	Using the arrows, select <i>Database</i> → <i>Select</i> → mdimg_db → <i>Exit</i> → <i>Table</i> → <i>Info</i> → mdimgsatellite <> → type s for status	This will display information about the table you selected, such as the creation date and number of rows.			→ means proceed to the next step.
27	Make sure the table selected was created on or after you created the area and that the number of rows exceeds 0.	As long as database was empty when you started, all imagery tables should reflect test 13.			

TEST EVALUATION:

This test is successful if all Retriever Monitor functions are performed correctly as specified.

NOTES:

PROBLEMS ENCOUNTERED DURING TESTING:

Test Data Sheet for Test of

Date/Time of Test: _____

Tester: _____

Test Identification: Quick weather

Initial Conditions: with Quick weather installed but not previously used. The Quick weather icon must be displayed on the desktop. In addition, connectivity with the METCAST server at FNMOC is required.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
	Double-click on the Quick weather icon on the desktop.	Configure Data Source dialog displayed (App. B, Fig. B.14-1)			
2	Enter the test installation's user name and password for the FNMOC server in the appropriate boxes, and click on the OK button.	Quick weather Request dialog displayed (App. B, Fig. B.14-2).			
3	Type "K" (without quotes) in the Station Call Sign box.	Available Stations box scrolls to first station starting with "K" (App. B, Fig. B.14-3).			
4	Continue typing a station call sign (e.g. KMRY)	Available Stations list scrolls as letters are typed in.			
5	When a station is displayed in the Station Call Sign box, click on the Add-> button.	Selected station appears in the Selected Stations box (App. B, Fig. B-14-4 shows the Quick weather Request dialog with several stations selected).			

Test Data Sheet for Test of

Date/Time of Test: _____

Tester: _____

Test Identification: Quick weather

Initial Conditions: with Quick weather installed but not previously used. The Quick weather icon must be displayed on the desktop. In addition, connectivity with the METCAST server at FNMOC is required.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
6	Select several more stations.	Stations appear in the Selected Stations box.			
7	Click on the Download and Display button.	“Retrieving Observations – Please Wait” message displayed, then station data shown in box at bottom of dialog (App. B, Fig. B.14-5).	Station data displayed for selected stations.		
8	Click on the Print button.	Data shown in the window are printed to the default printer.			
9	Highlight a station call sign in the Selected Stations box and click the Remove <- button.	Selected station is deleted from the Selected Stations list.			
10	Highlight a station ID in the Selected Stations list and click the Clear<<- button.	Selected Stations list is cleared of all entries.			
12	Click on the Configure button.	Configure Data Source dialog displayed.			

Test Data Sheet for Test of

Date/Time of Test: _____

Tester: _____

Test Identification: Quick weather

Initial Conditions: with Quick weather installed but not previously used. The Quick weather icon must be displayed on the desktop. In addition, connectivity with the METCAST server at FNMOC is required.

Step	Operator Action	Expected Result	Evaluation Criteria	Pass/Fail	Notes
13	Click on the OK button.	Configure Data Source dialog closes.			
14	Click on the Close button.	Quick weather Request dialog closes.			

TEST EVALUATION:

This test is considered successful if the tester is able to configure the Quick weather Requester, connect to the FNMOC server, and retrieve, display, and print station data.

NOTES:

PROBLEMS ENCOUNTERED DURING TESTING:

APPENDIX B Test Output Illustrations

This Appendix contains illustrations showing the expected screen output of the testing.

B.1 Test 1 Output

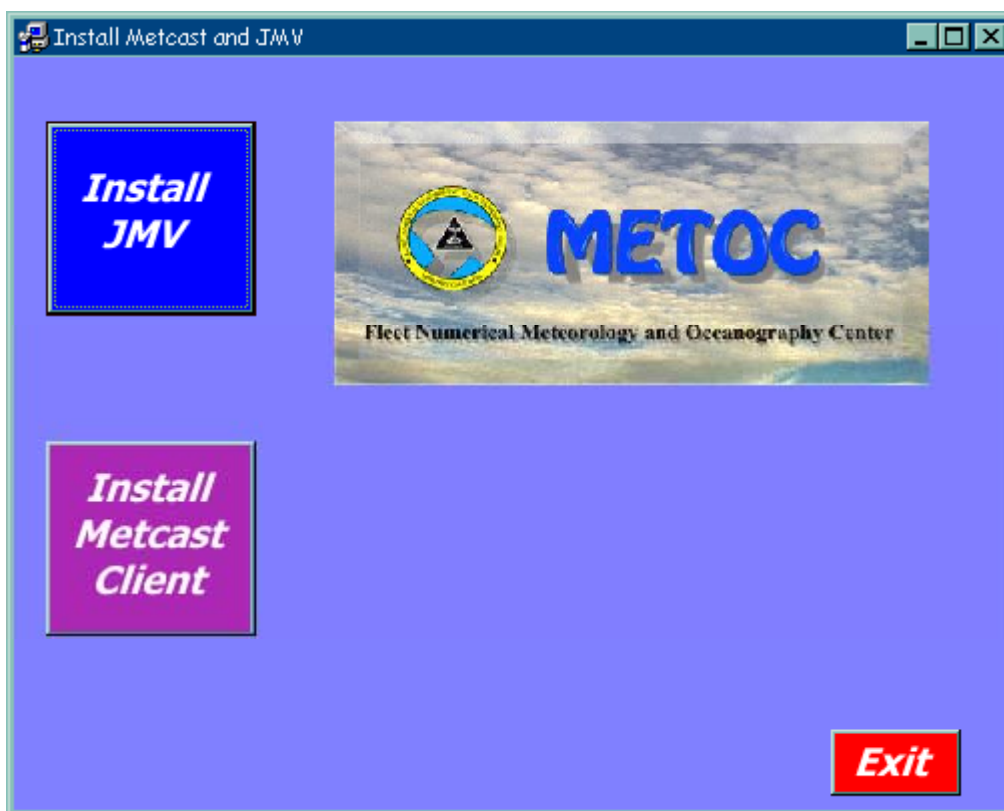


Figure B.1-1. JM/V/METCAST Installation Splash Screen

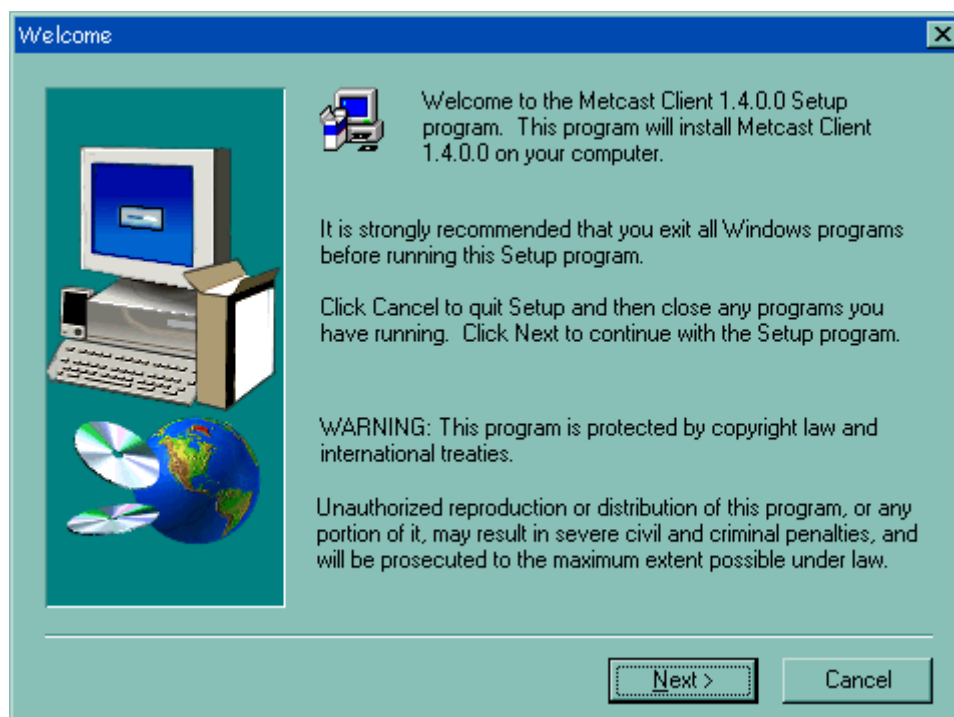


Figure B.1-2. METCAST Client Setup Screen

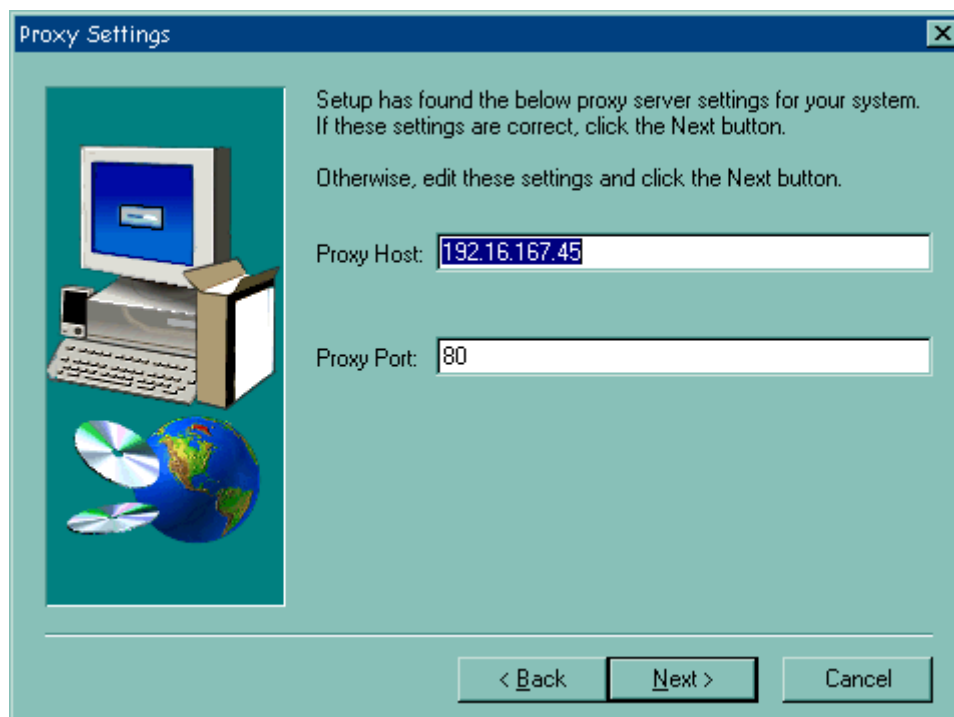


Figure B.1-3. Proxy Settings Dialog

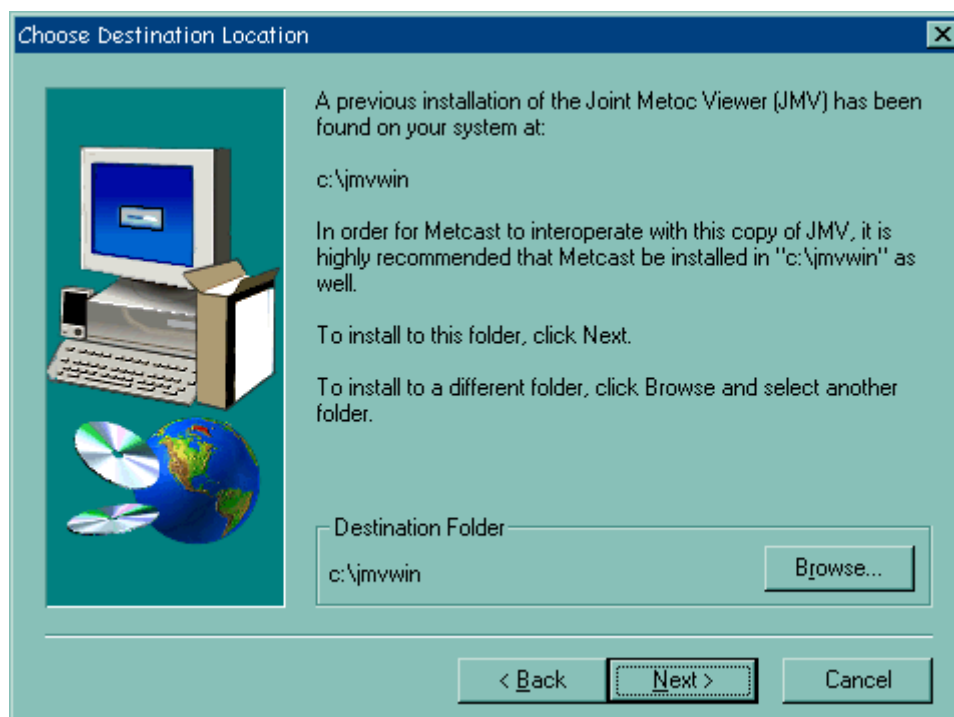


Figure B.1-4. Choose Destination Location Dialog

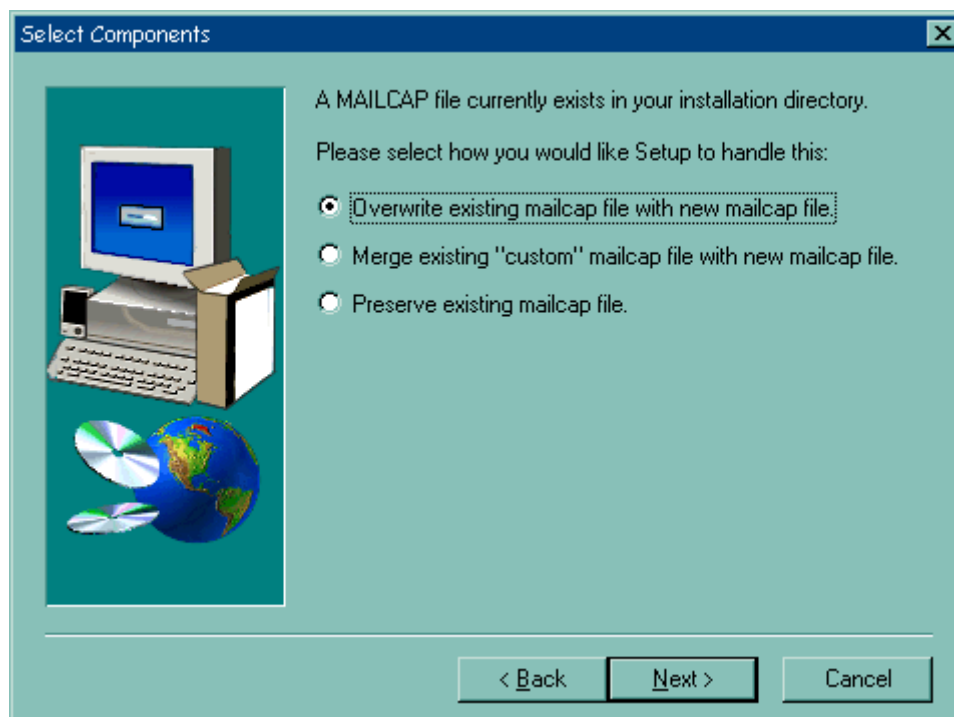


Figure B.1-5. Select Components Dialog

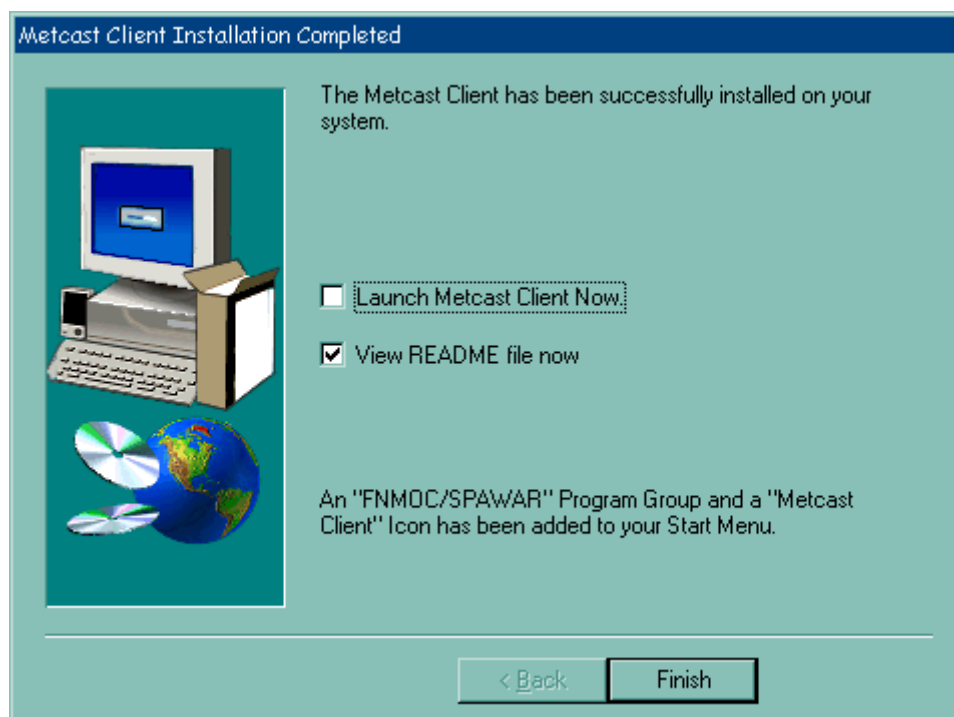


Figure B.1-6. Metcast Client Installation Completed Dialog

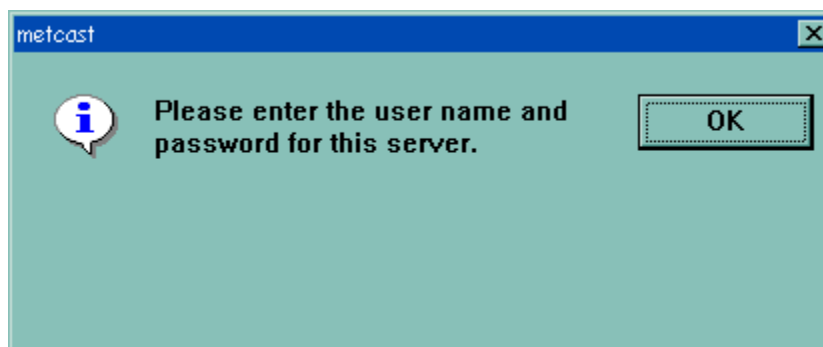


Figure B.1-7. User Name and Password Prompt

The 'Server Configuration' dialog box contains the following fields and controls:

- Server Name:** FNMOC
- Server URL:** http://152.80.49.210/cgi-bin/mcsrvr/rest/server
- URL for Publish:** http://152.80.49.210/cgi-bin/mcsrvr/rest/taker
- Use Proxy Server:** ☐ (unchecked)
- HTTP Proxy:** 123.123.123.123
- Port:** 80
- Enable Authentication:** ☒ (checked)
- Username:** (empty field)
- Password:** (empty field)
- Maximum Minutes to Retry Failed Data Retrieval:** 500
- Buttons:** Request Setup, OK, Cancel

Figure B.1-8. Server Configuration Dialog With Default Server Settings

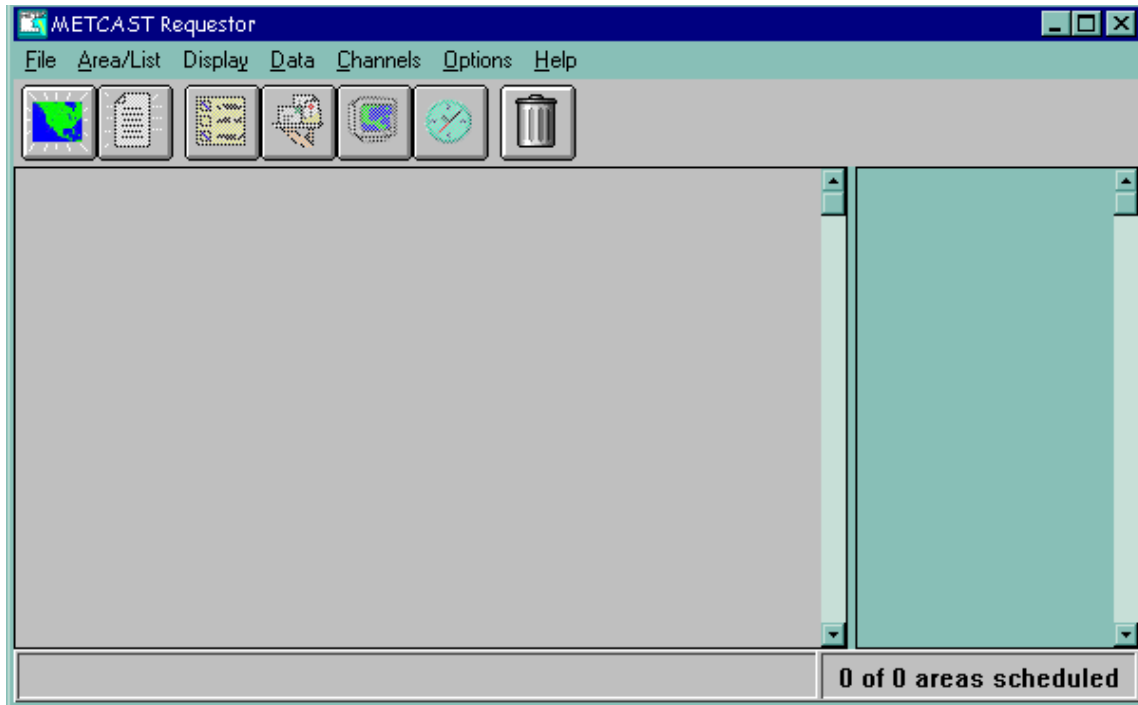


Figure B.1-9. METCAST Requestor Initial Screen

B.2 Test 2 Output

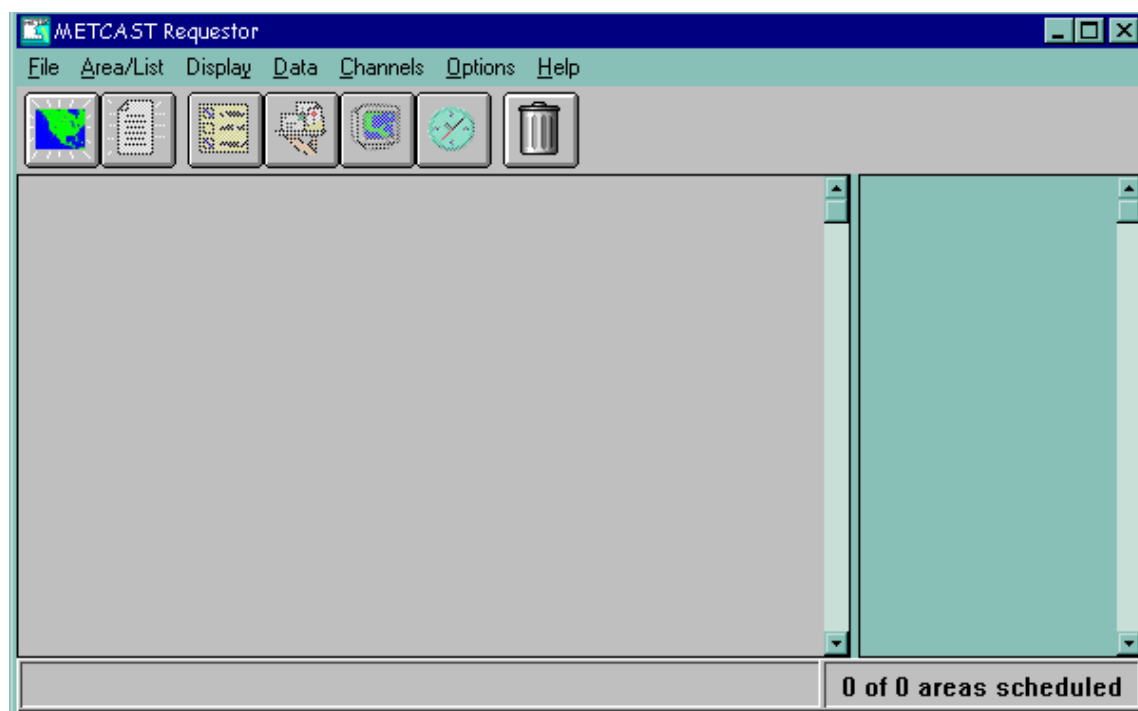


Figure B.2-1. METCAST Requestor Initial Screen

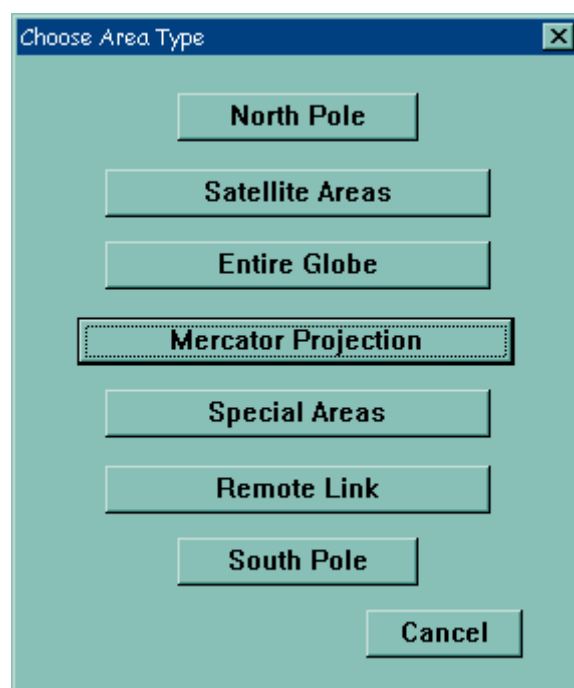


Figure B.2-2. Choose Area Type Dialog

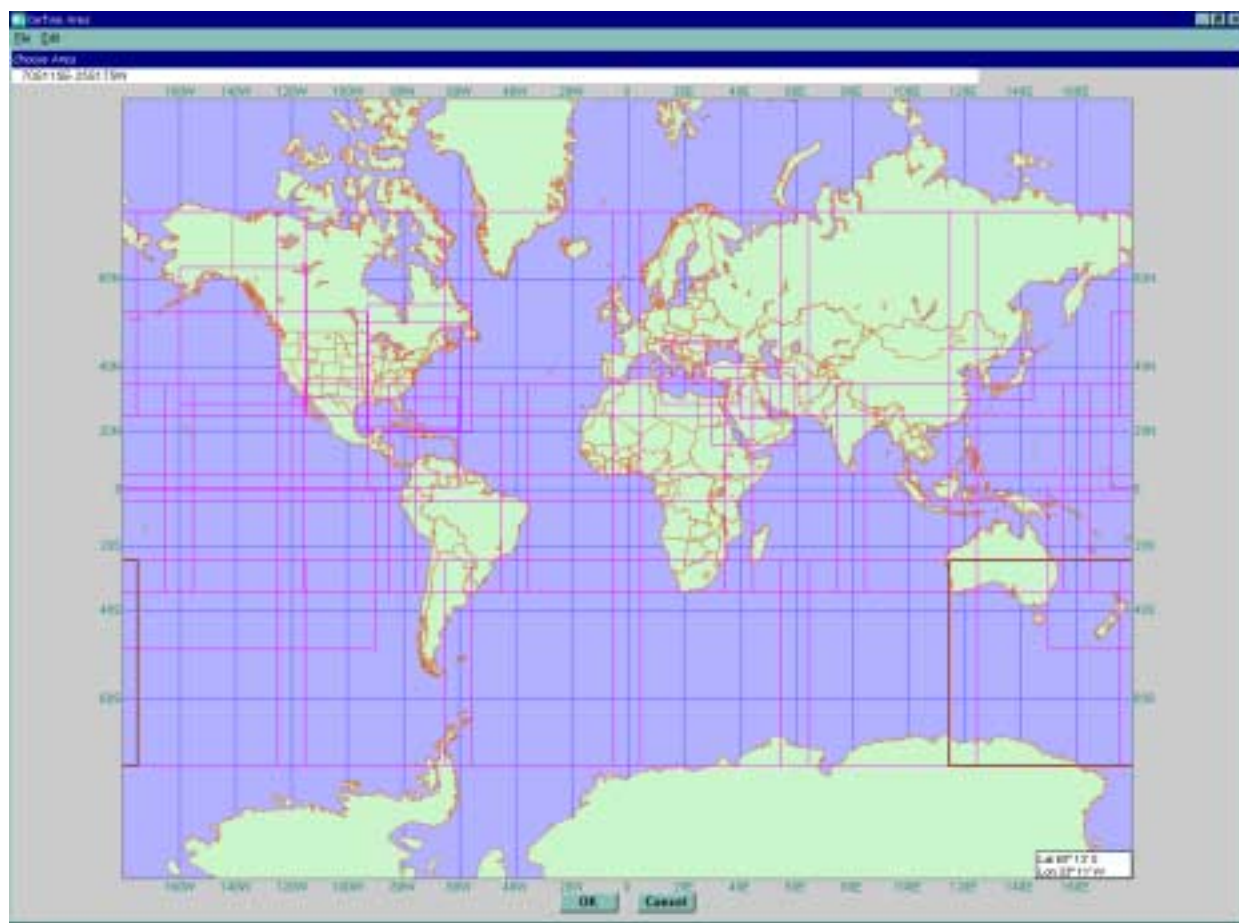


Figure B.2-3. Define Area Dialog for Satellite Areas

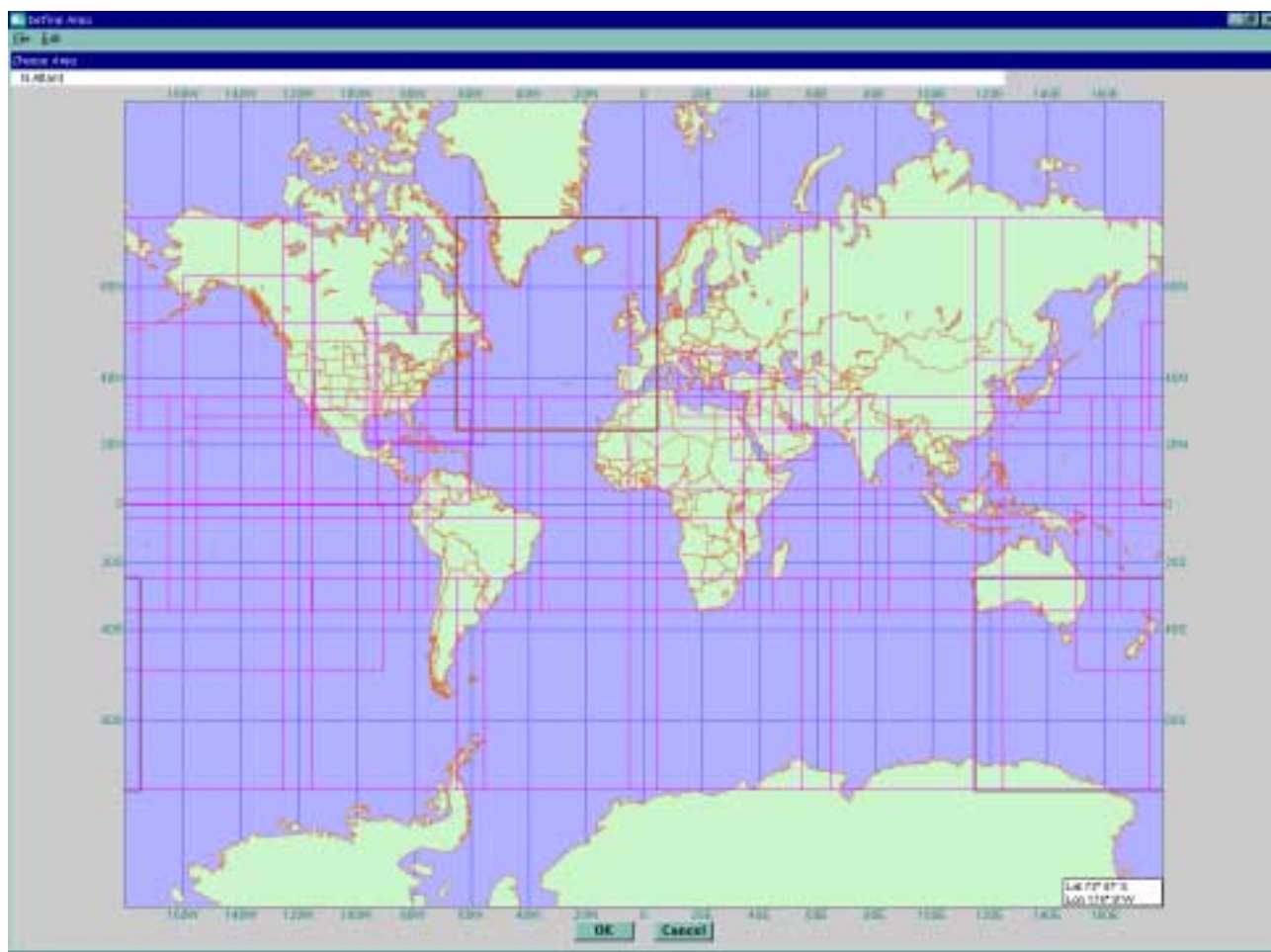


Figure B.2-4. N.Atlant Satellite Area Selected

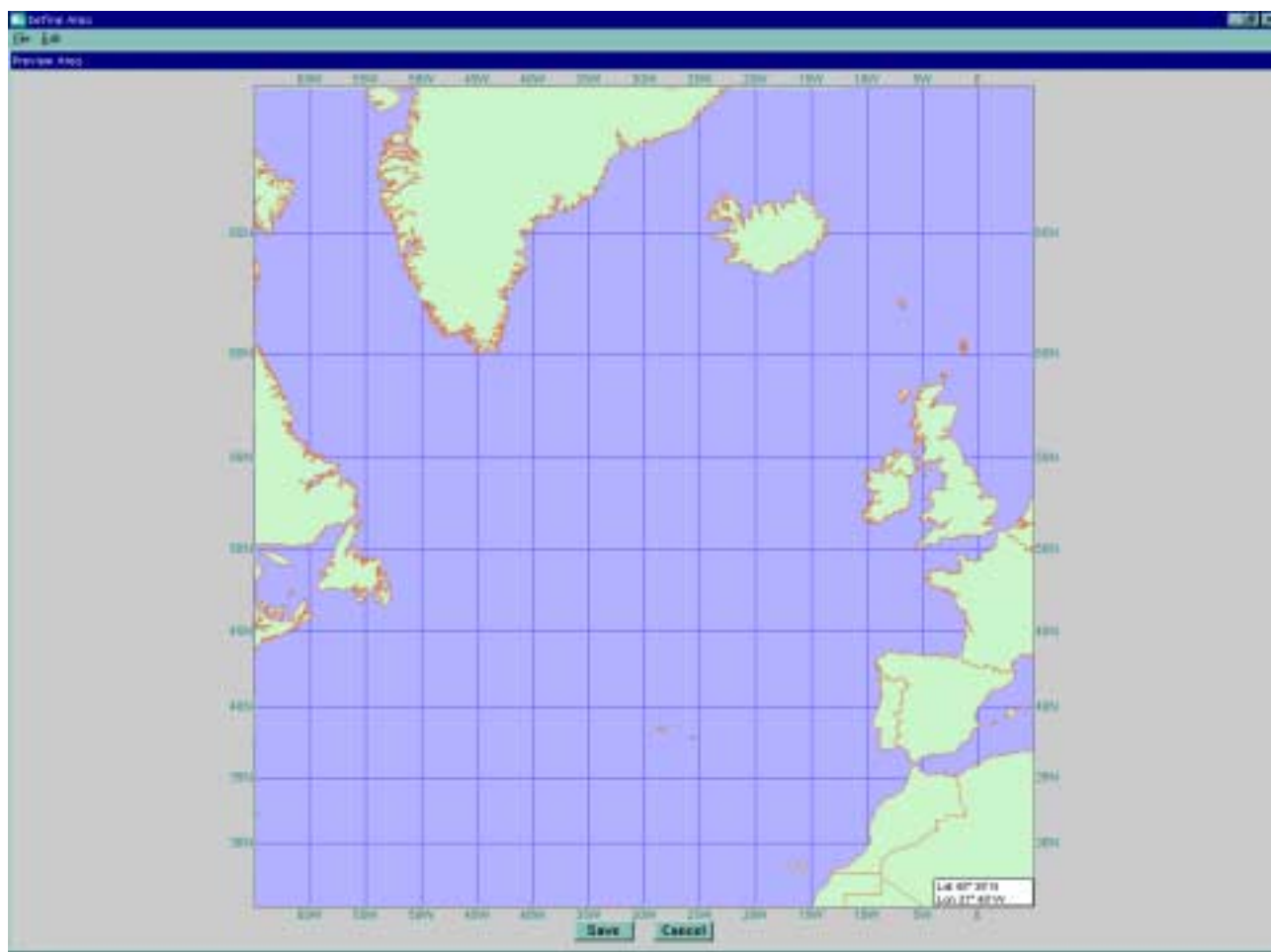


Figure B.2-5. Preview Area Dialog With N. Atlant Satellite Area Shown

Figure B.2-6. Name An Area Dialog

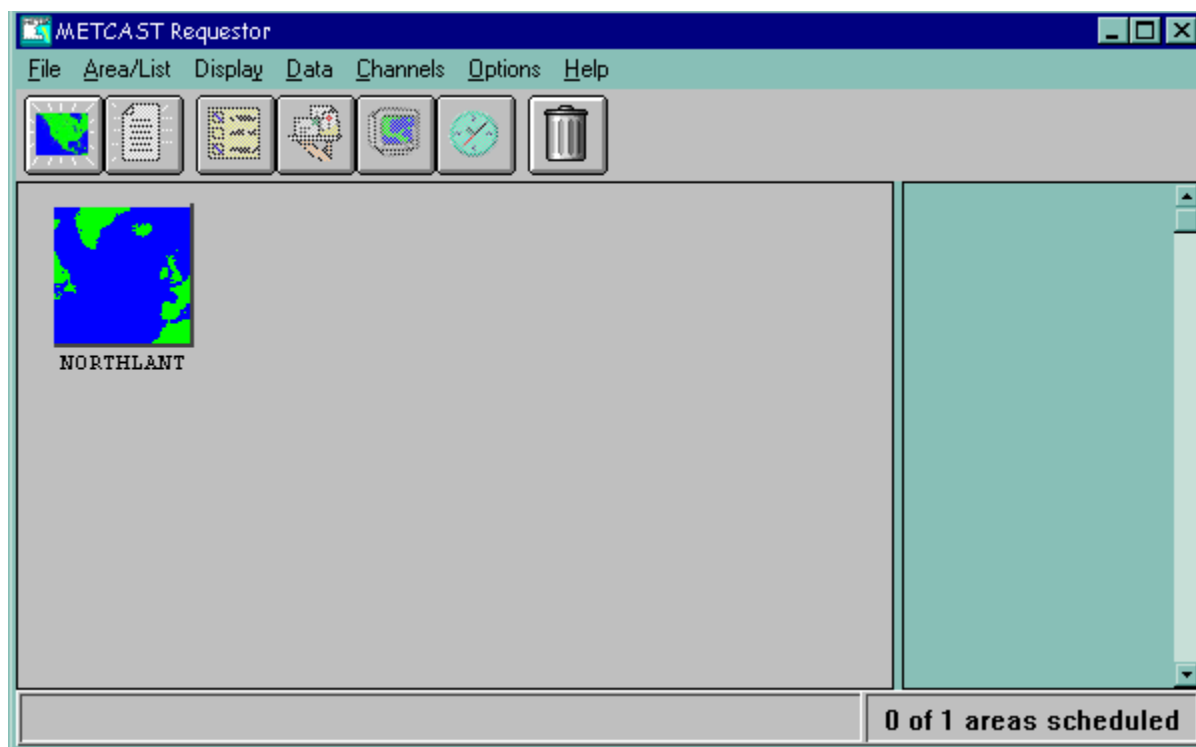


Figure B.2-7. METCAST Requestor Showing NORTHLANT Area Icon

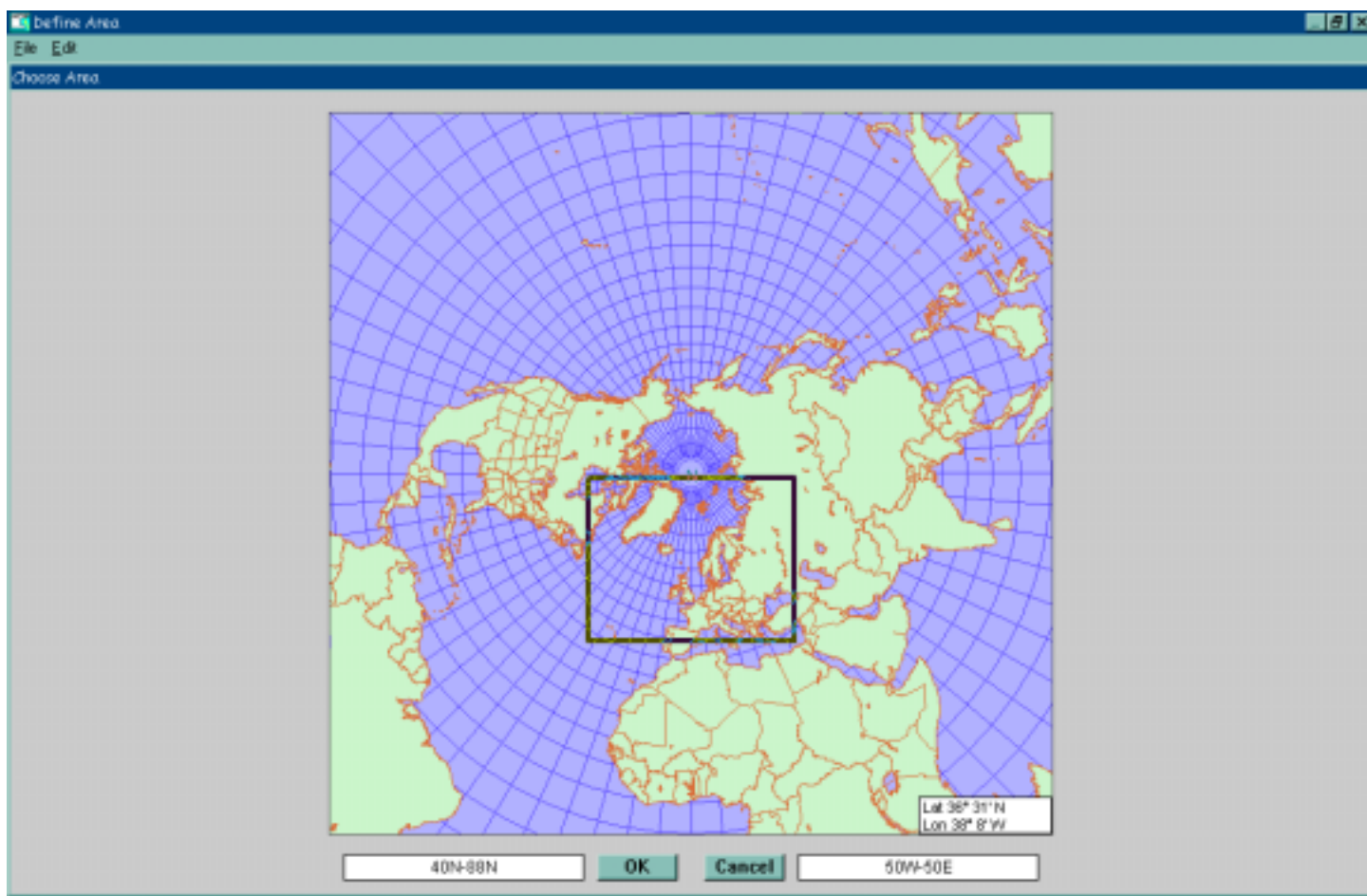


Figure B.2-8. Define Area Dialog for North Polar Area

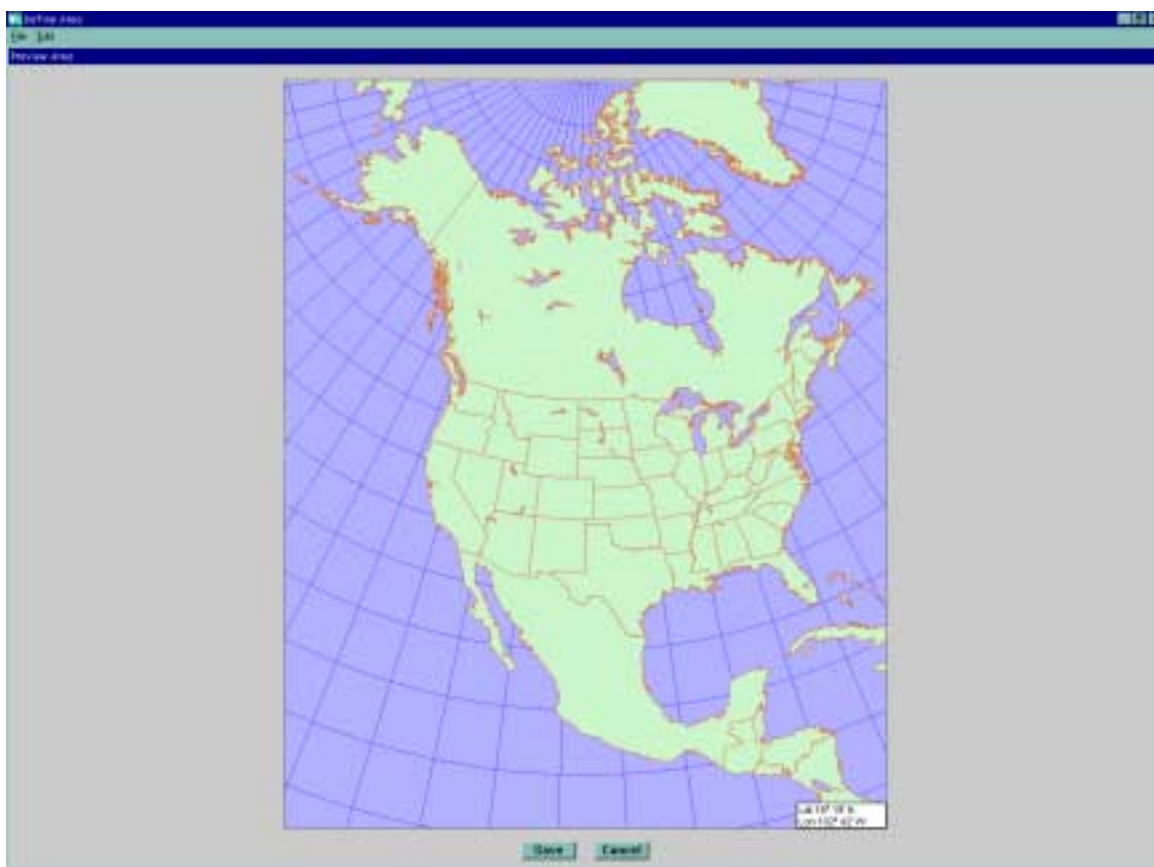


Figure B.2-9. Preview Area Dialog Showing North America Area

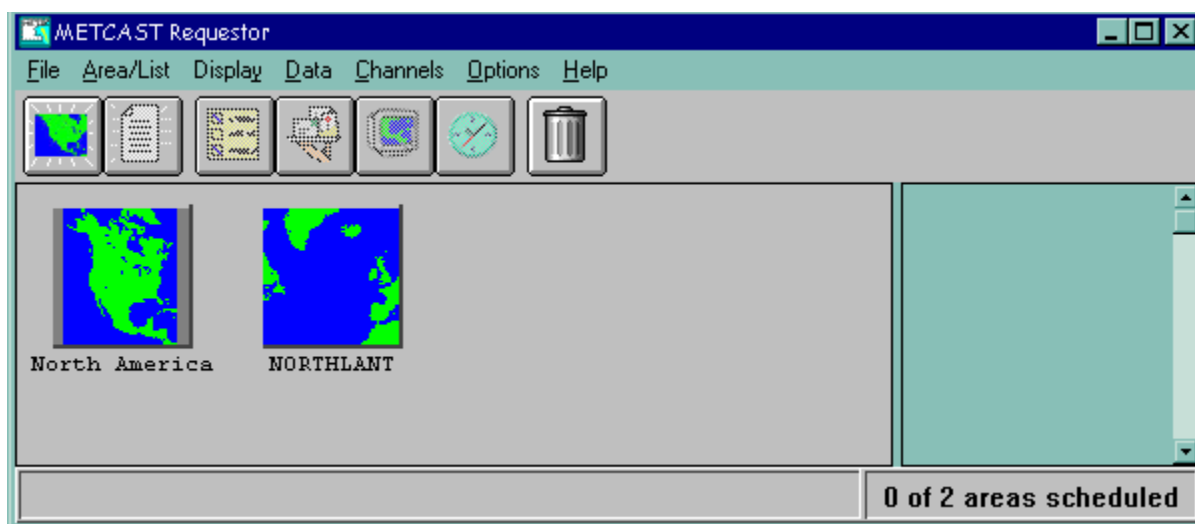


Figure B.2-10. METCAST Requestor Showing North America Area Icon

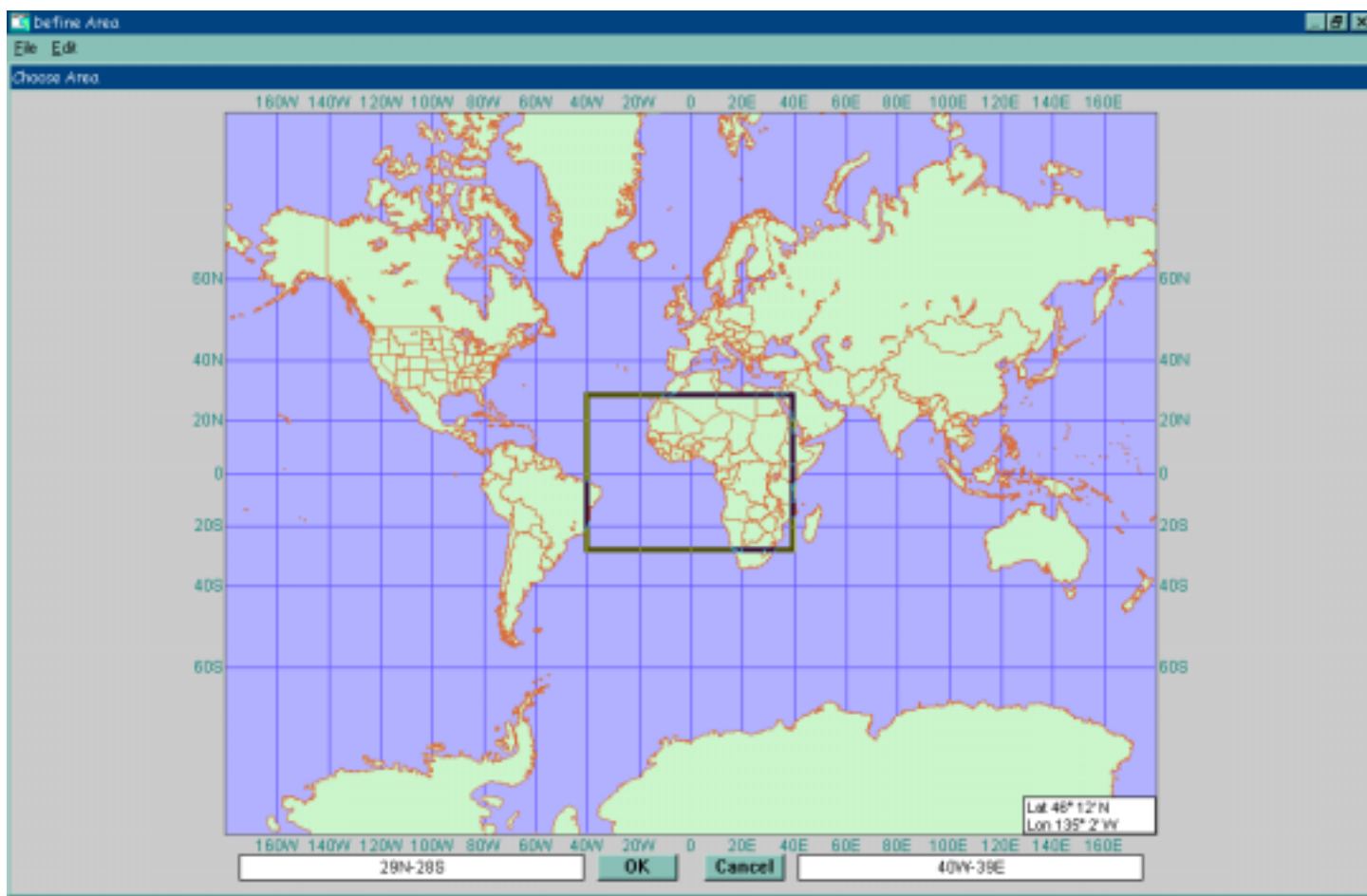


Figure B.2-11. Mercator Choose Area Dialog

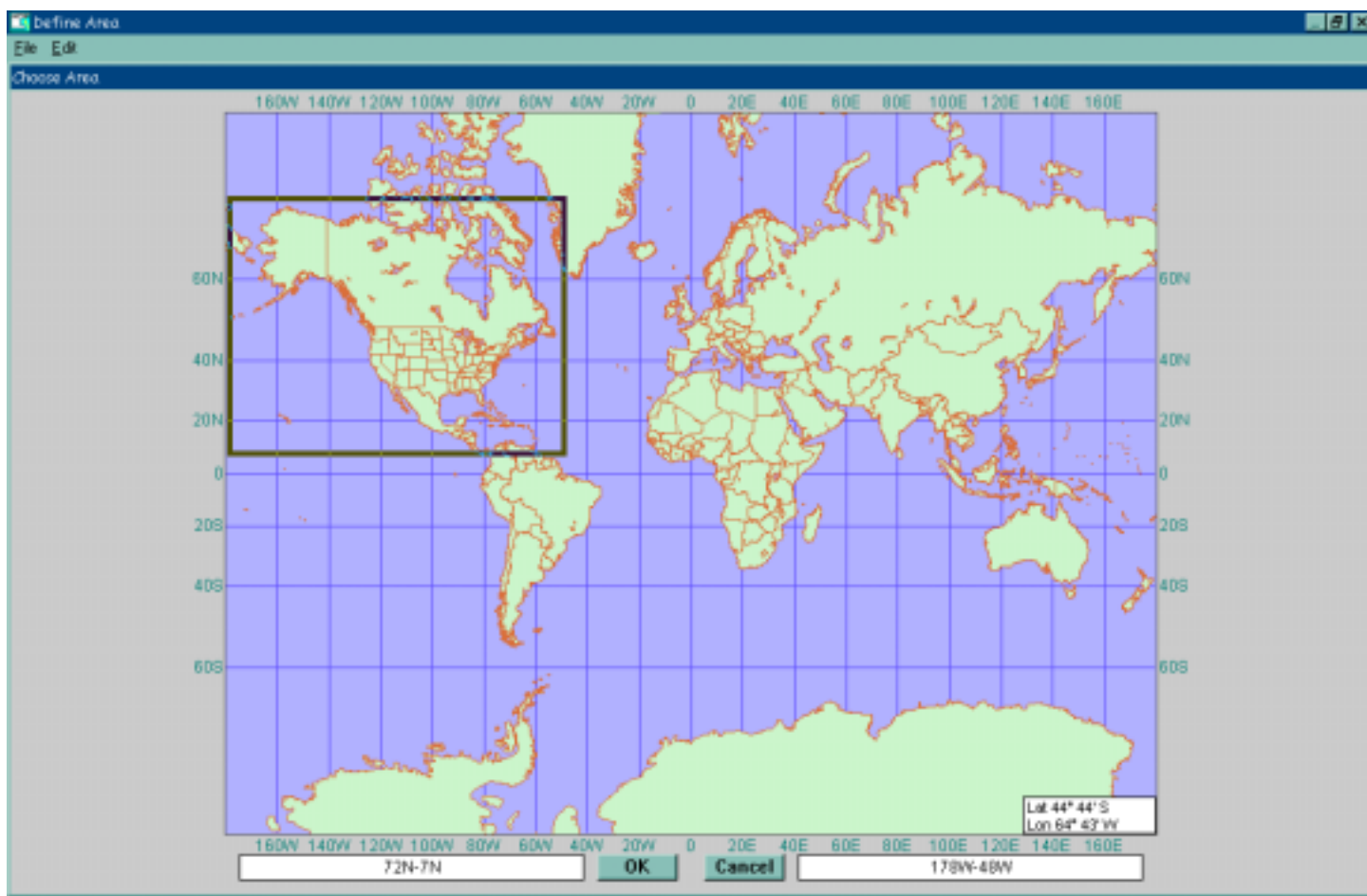


Figure B.2-12. Mercator Choose Area Dialog With North America Selected

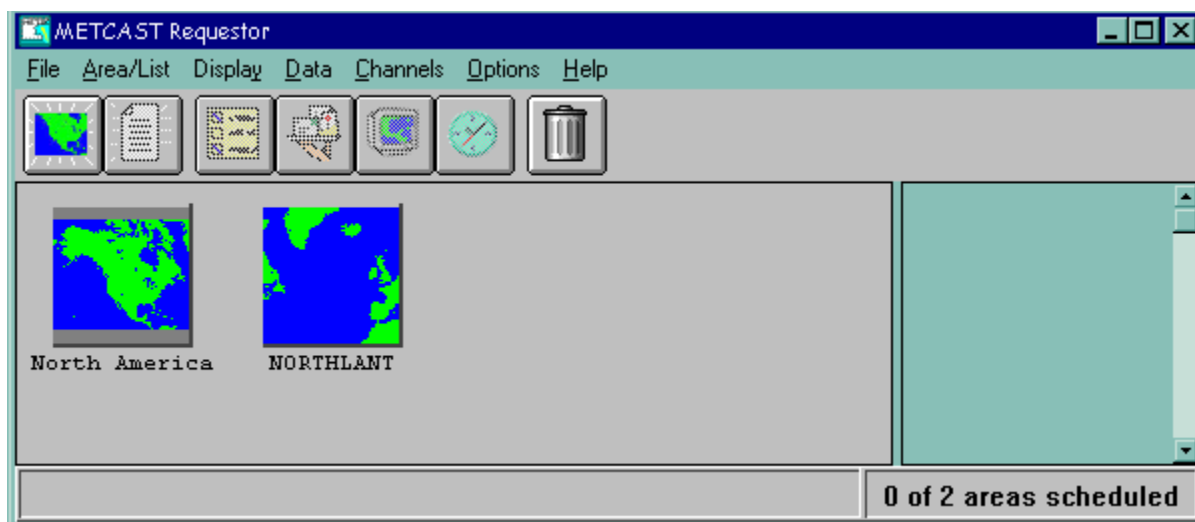


Figure B.2-13. METCAST Requestor Showing New North America Icon

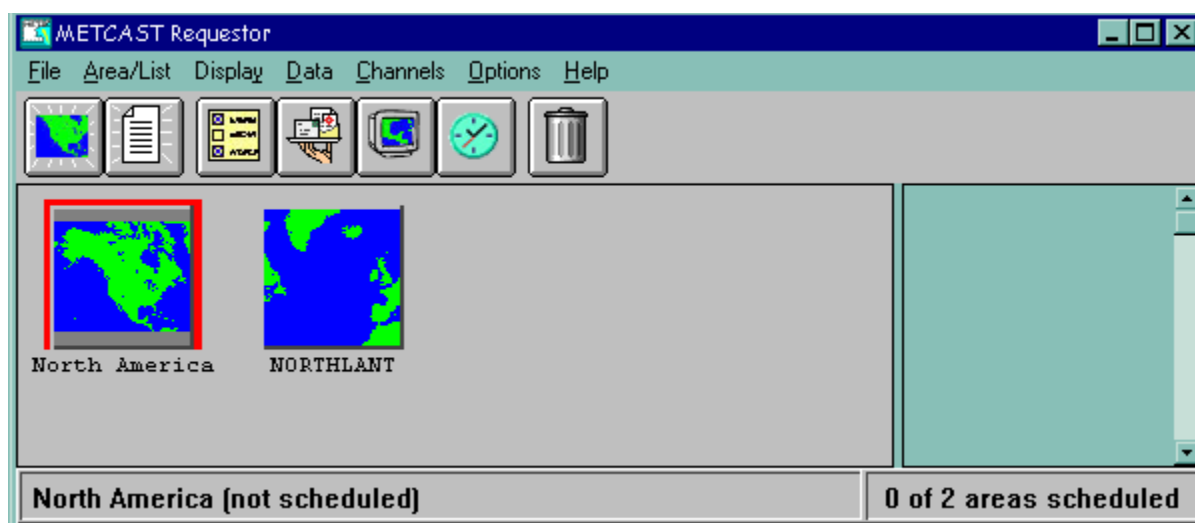


Figure B.2-14. METCAST Requestor With North America Icon Highlighted

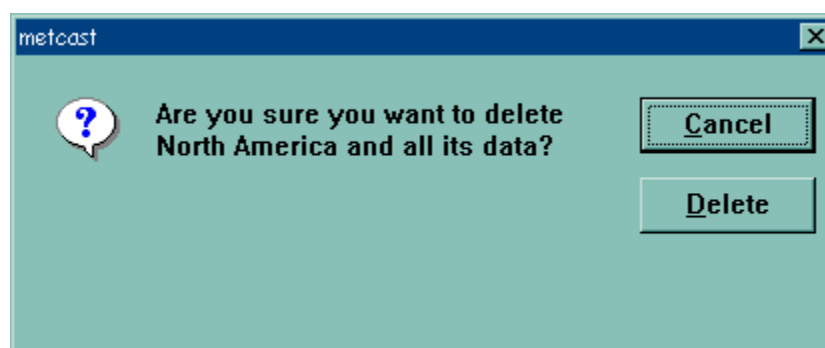


Figure B.2-15. Delete Area Confirmation Dialog

B.3 Test 3 Output

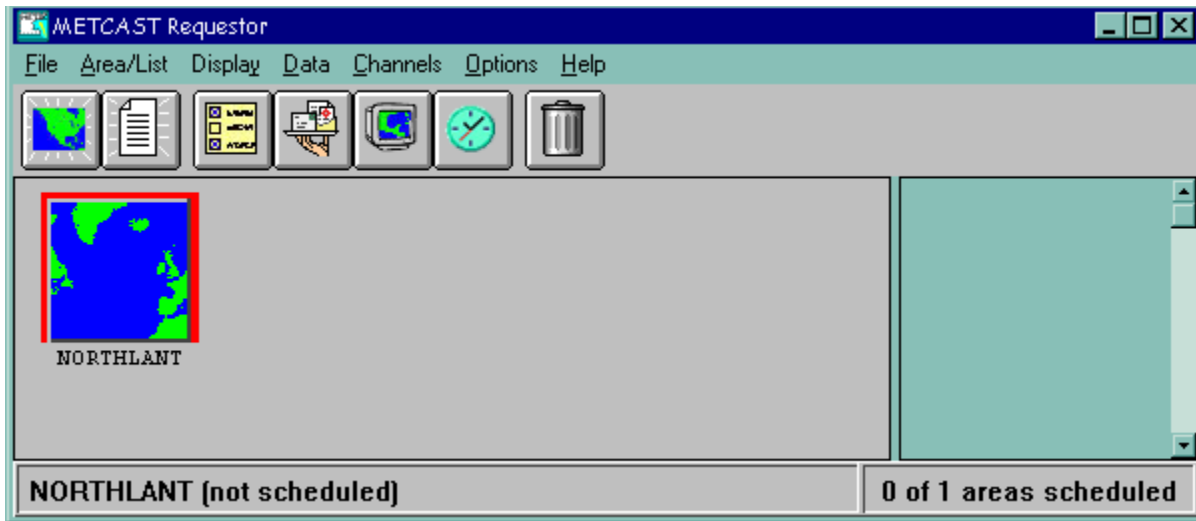


Figure B.3-1. METCAST Requestor With NORTHLANT Icon Highlighted

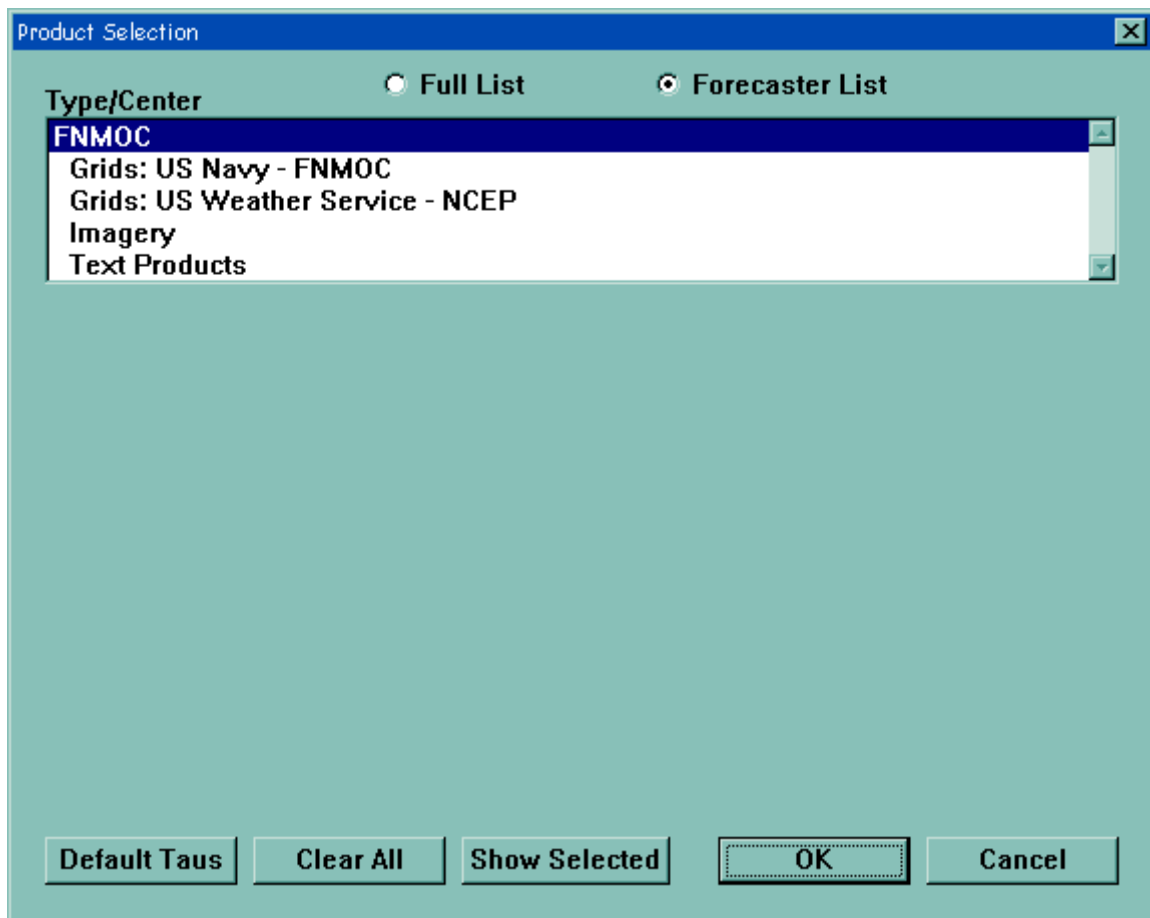


Figure B.3-2. Choose Products Dialog For NORTHLANT Area

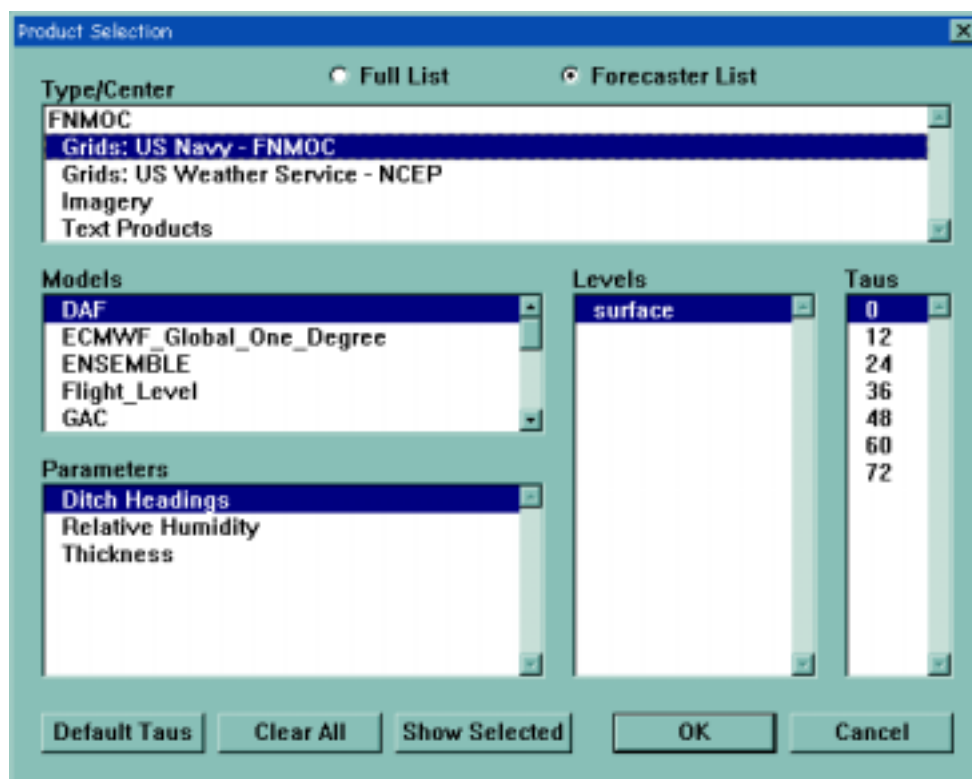


Figure B.3-3. Choose Products Dialog Showing FNMOC Grids List

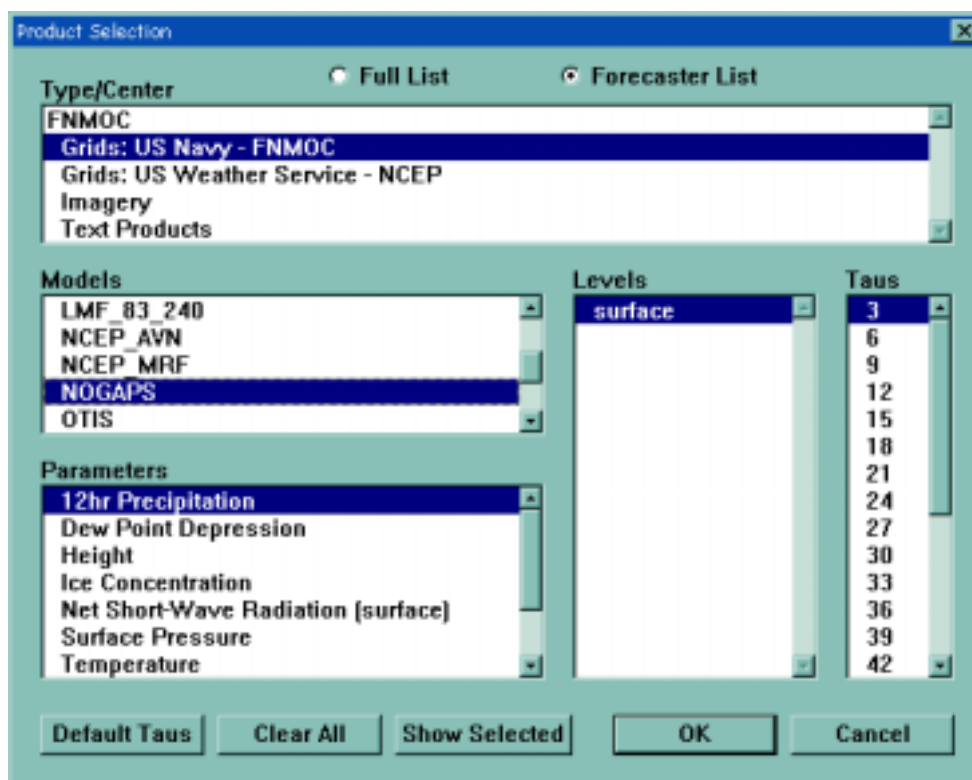


Figure B.3-4. Choose Products Dialog Showing FNMOC NOGAPS Grids

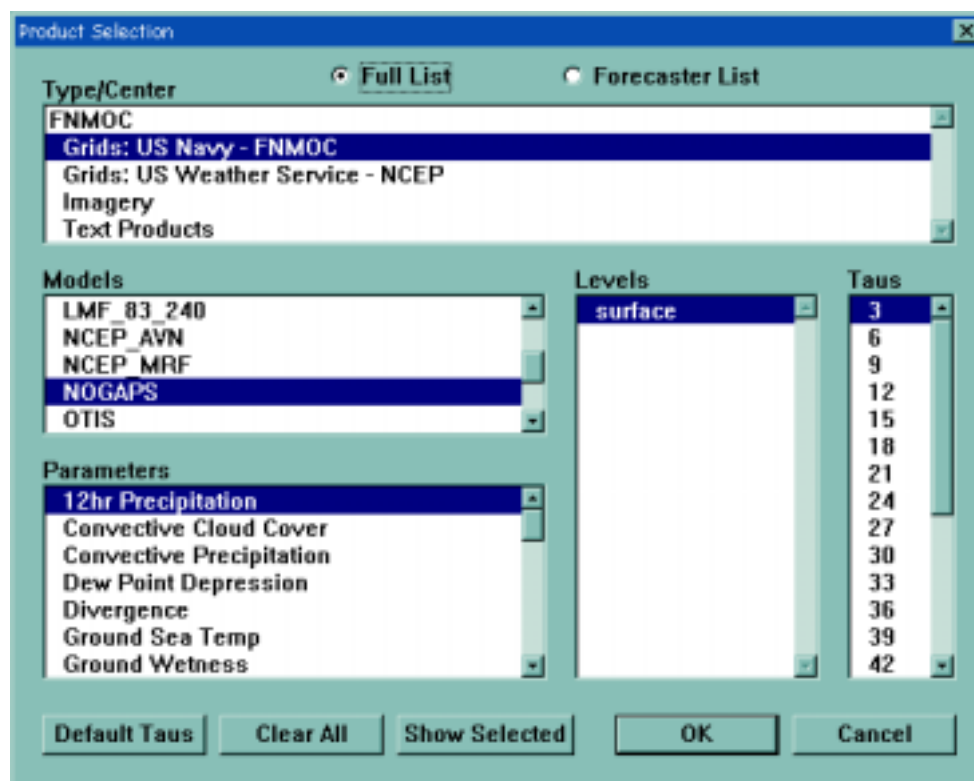


Figure B.3-5. Choose Products Dialog With FNMOC NOGAPS Grids -- Full List

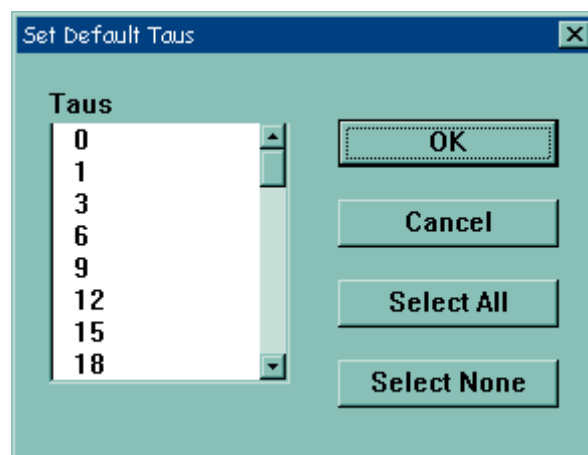


Figure B.3-6. Set Default Taus Dialog

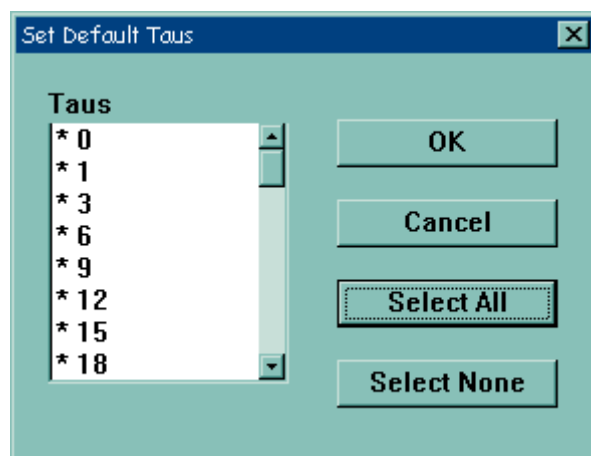


Figure B.3-7. Set Default Taus Dialog With All Taus Selected

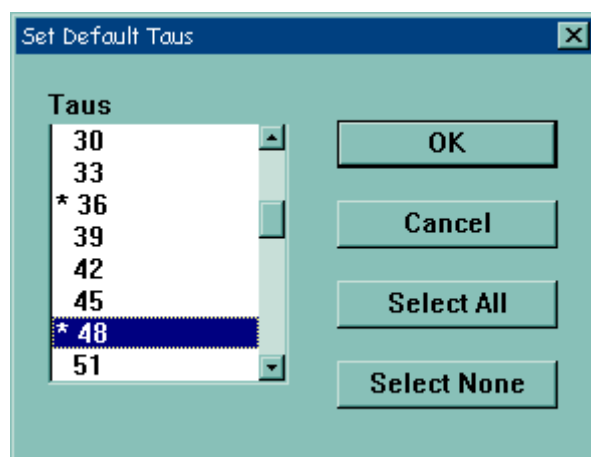


Figure B.3-8. Set Default Taus Dialog With Selections Marked

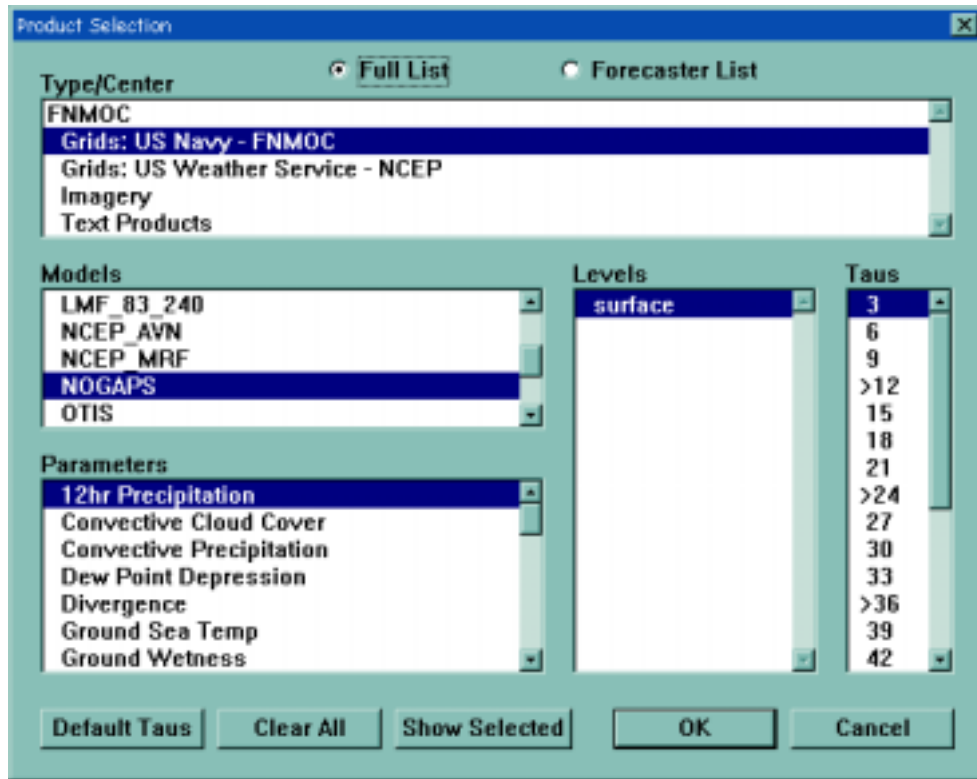


Figure B.3-9. Product Selection Dialog With Default Taus Marked

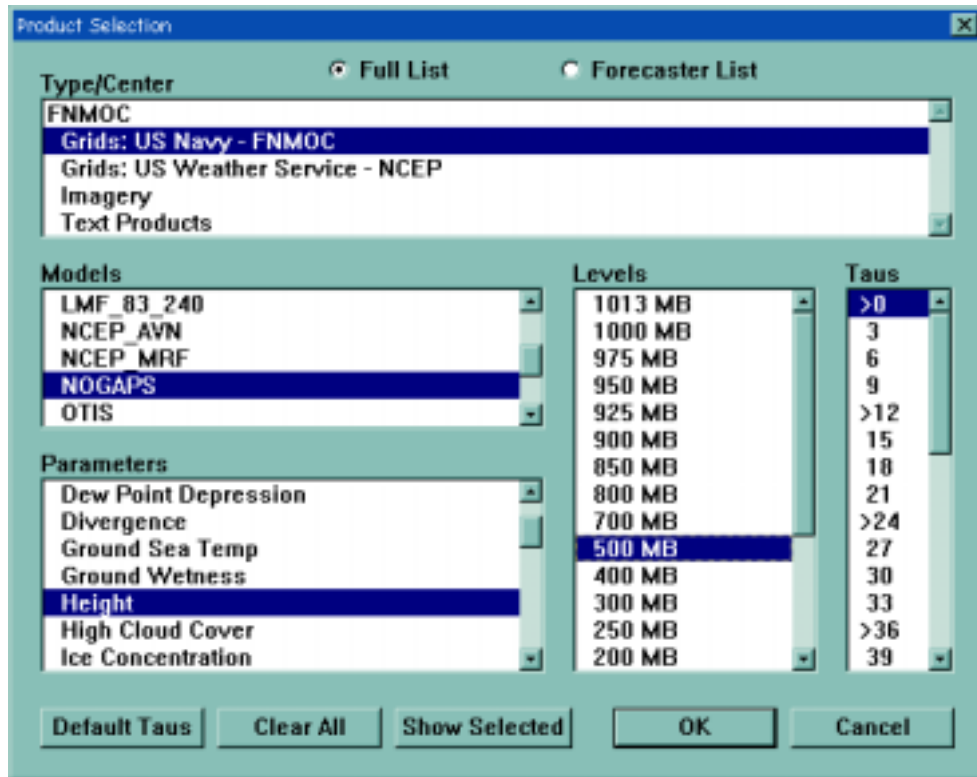


Figure B.3-10. Product Selection Dialog Displaying FNMOC NOGAPS Height Grids

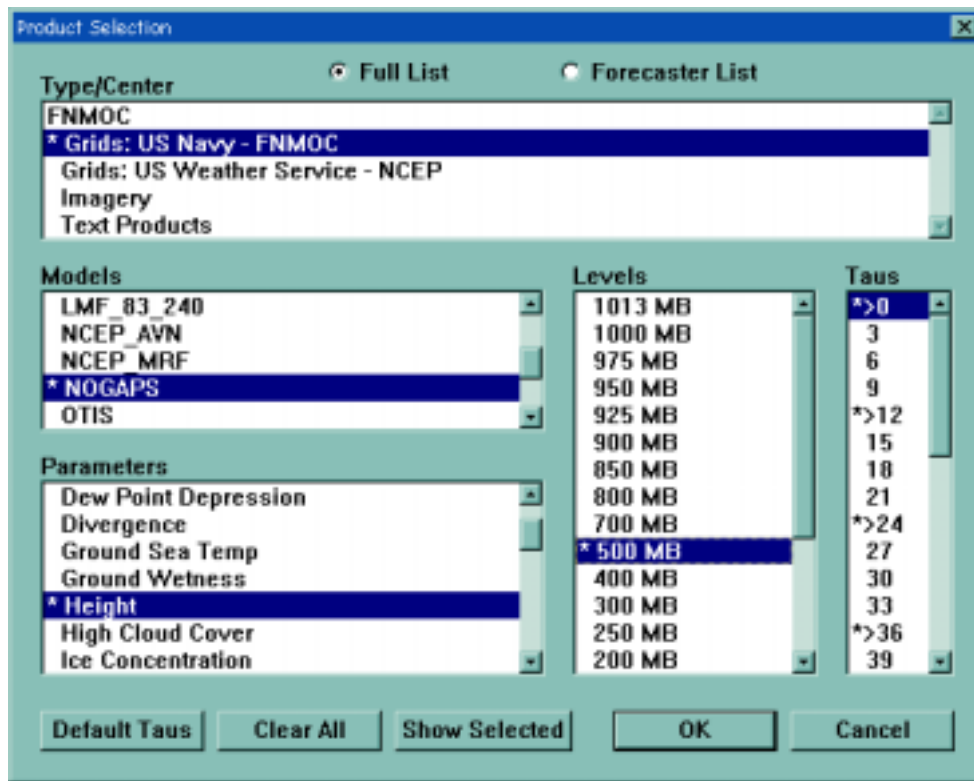


Figure B.3-11. Product Selection Dialog With 500 MB Heights Selected for Default Taus

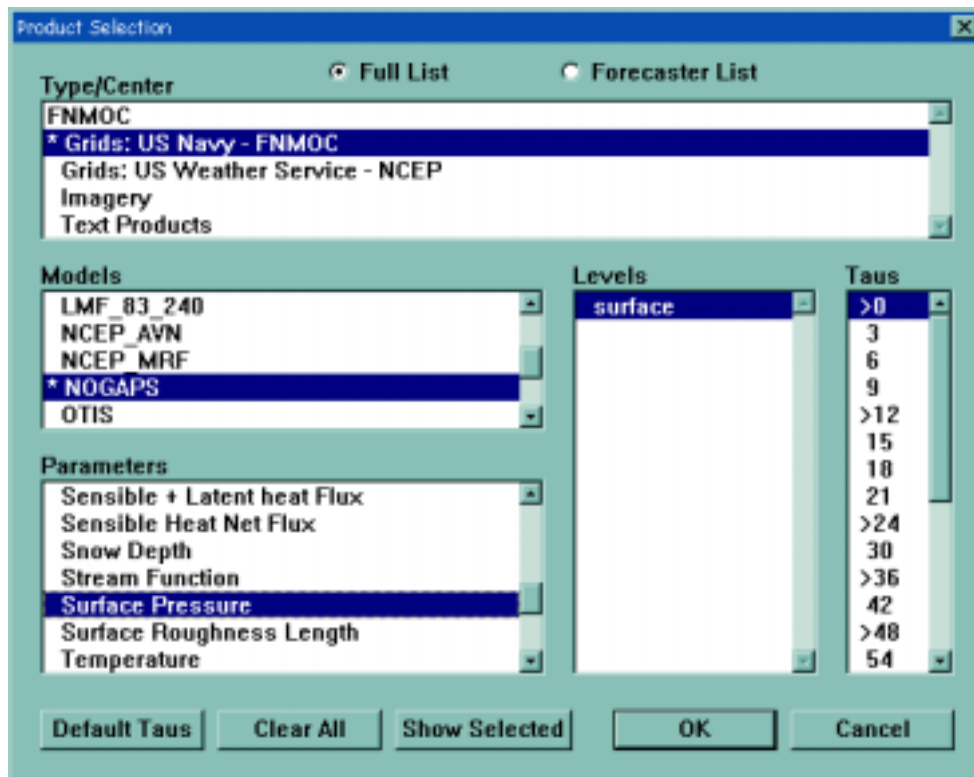


Figure B.3-12. Product Selection Dialog With Surface Pressure Selected

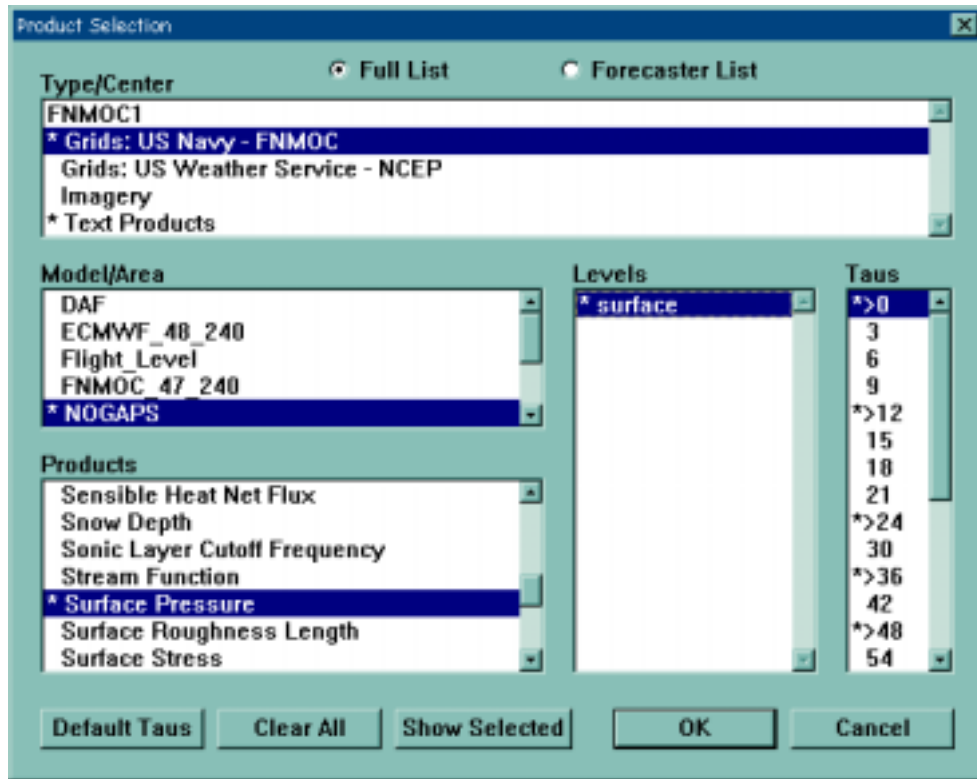


Figure B.3-13. Product Selection Dialog With Surface Pressure Selected for Default Taus

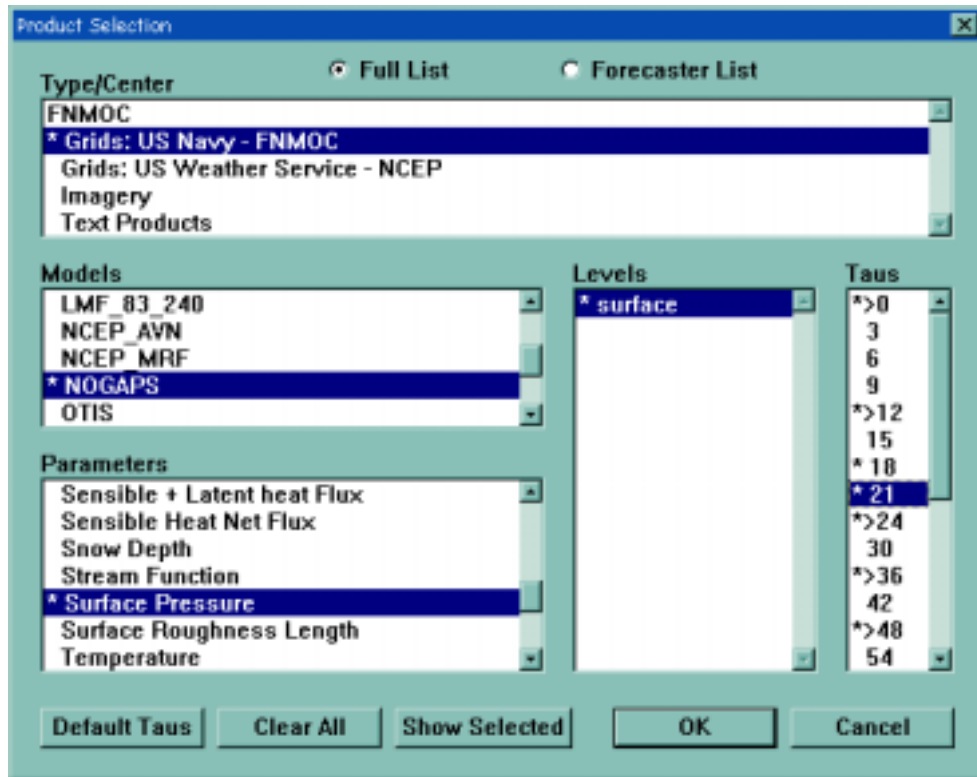


Figure B.3-14. Product Selection Dialog With Surface Pressure Selected for Non-Default Taus

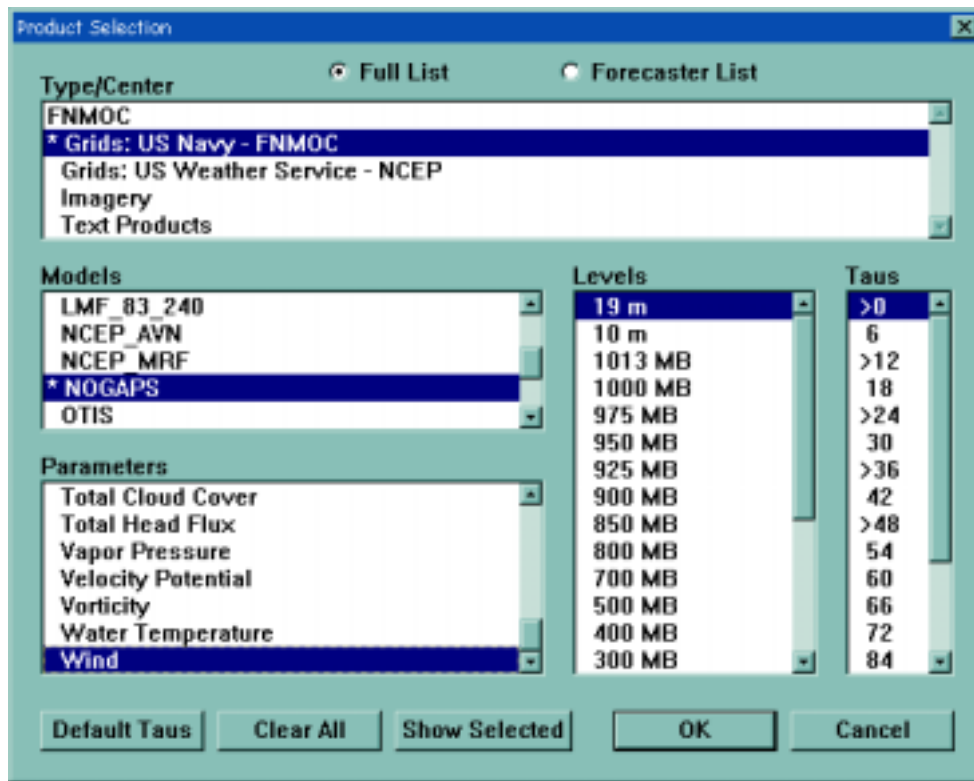


Figure B.3-15. Product Selection Dialog Showing Wind Selections

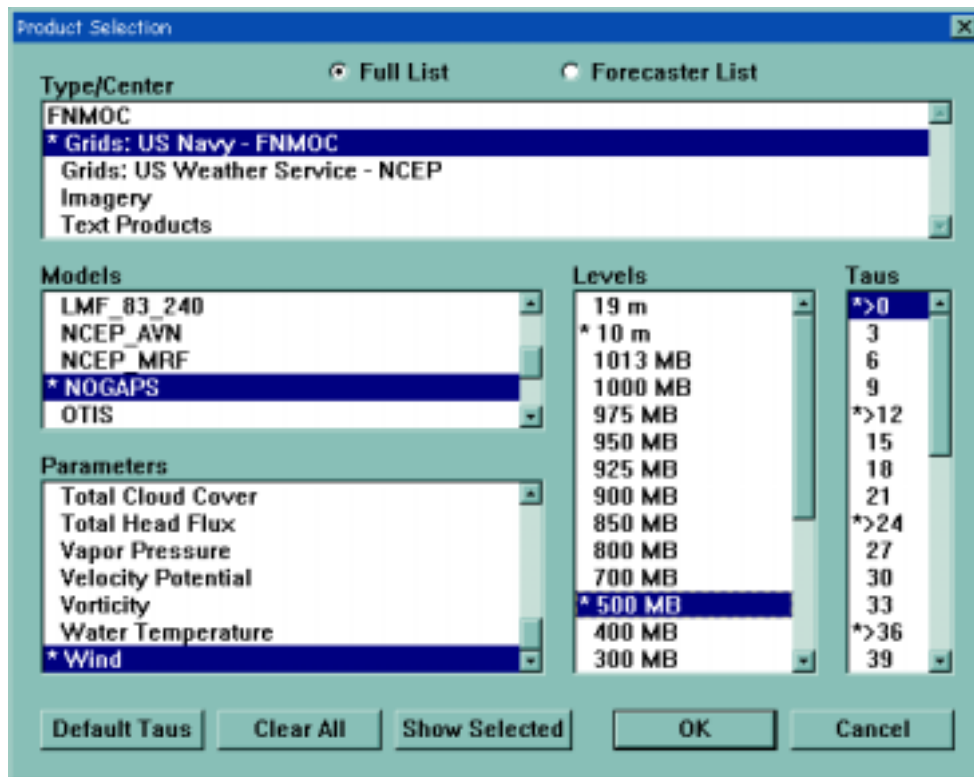


Figure B.3-15. Product Selection Dialog With Wind Grids Selected

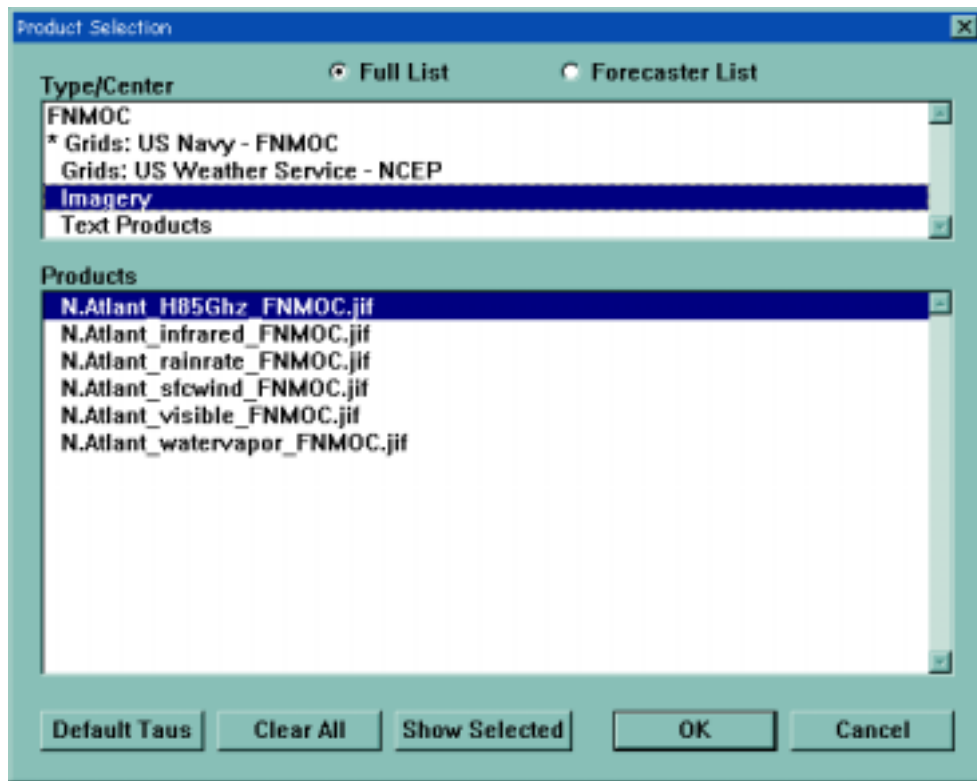


Figure B.3-16. Product Selection Dialog Showing Imagery Selections

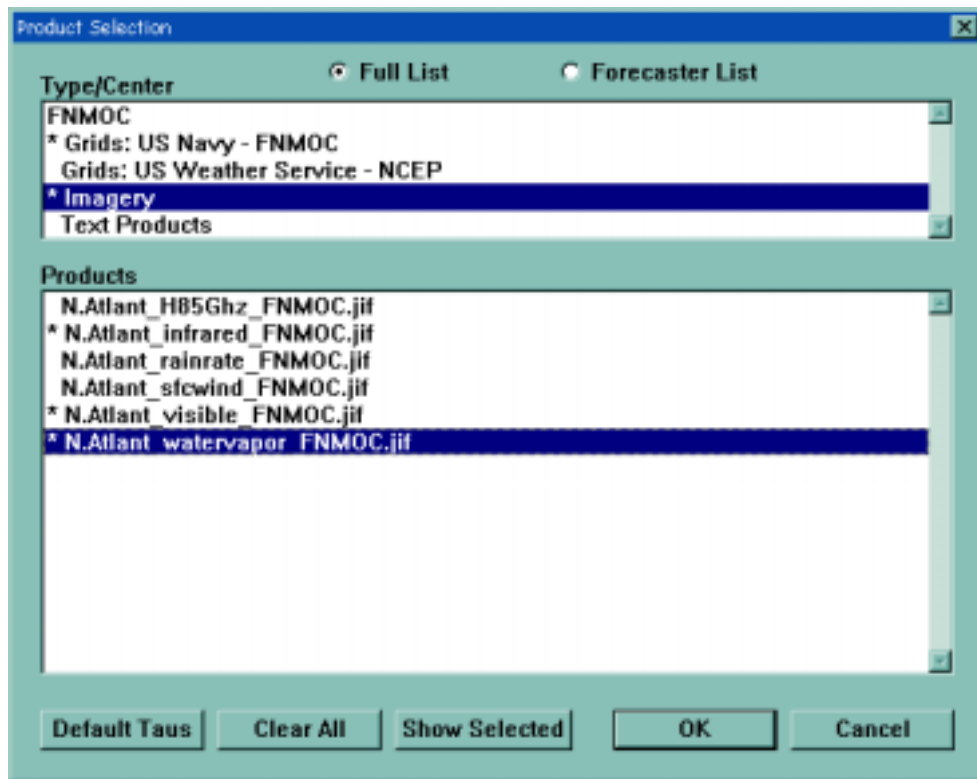


Figure B.3-17. Product Selection Dialog With Imagery Selected

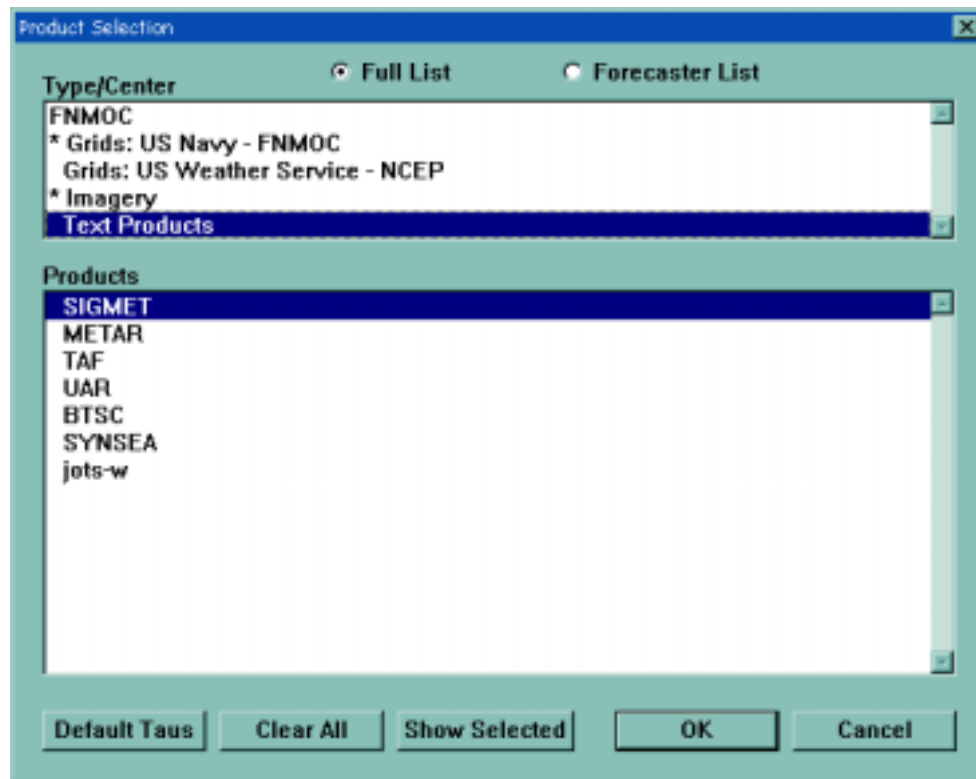


Figure B.3-18. Product Selection Dialog Showing Text Product Selections

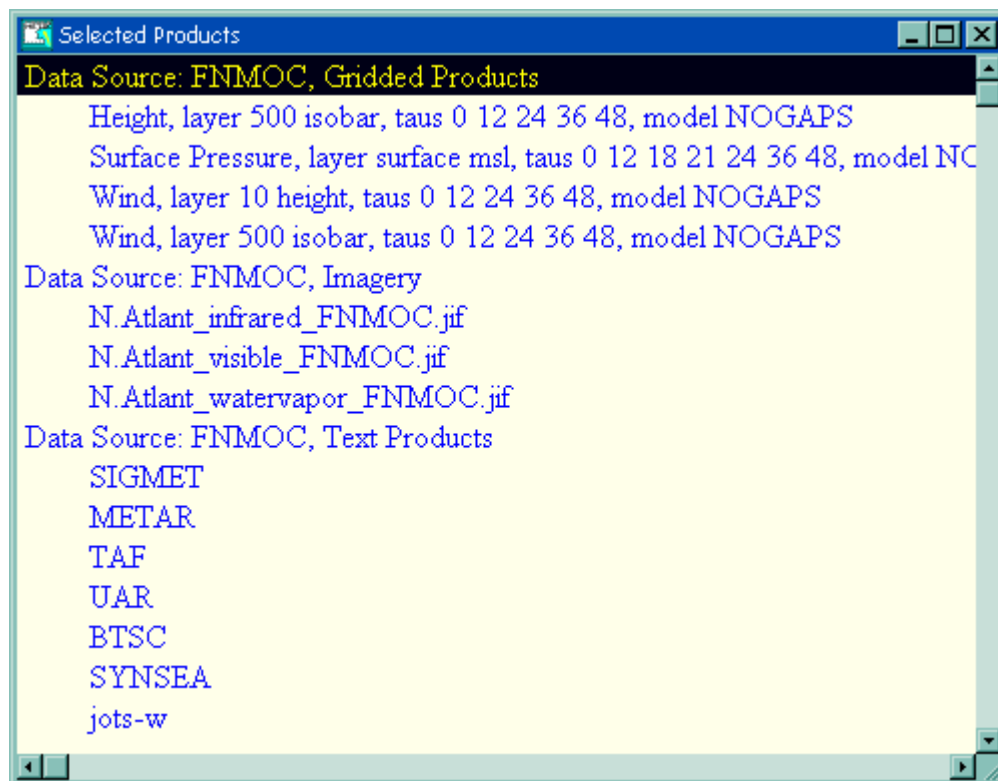


Figure B.3-19. Selected Products List

B.4 Test 4 Output

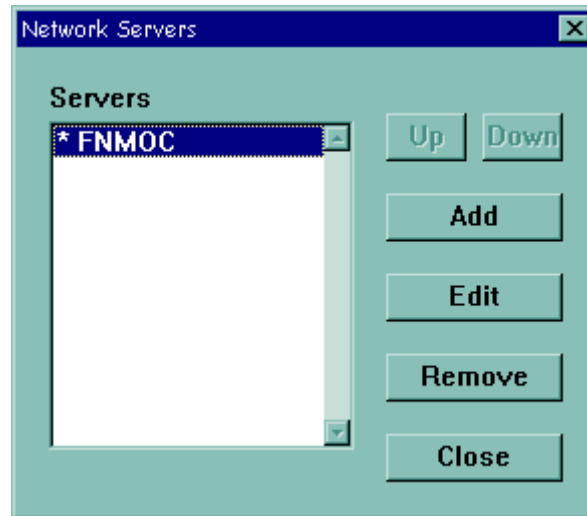


Figure B.4-1 Network Servers Dialog

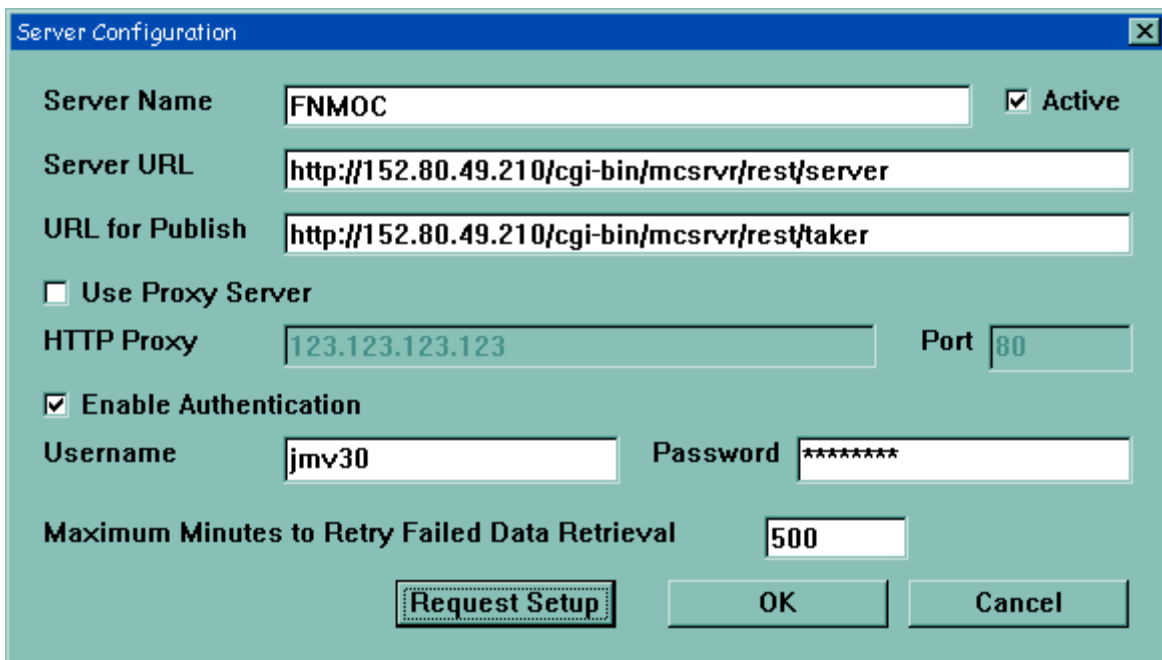


Figure B.4-2 Server Configuration Dialog for FNMOC

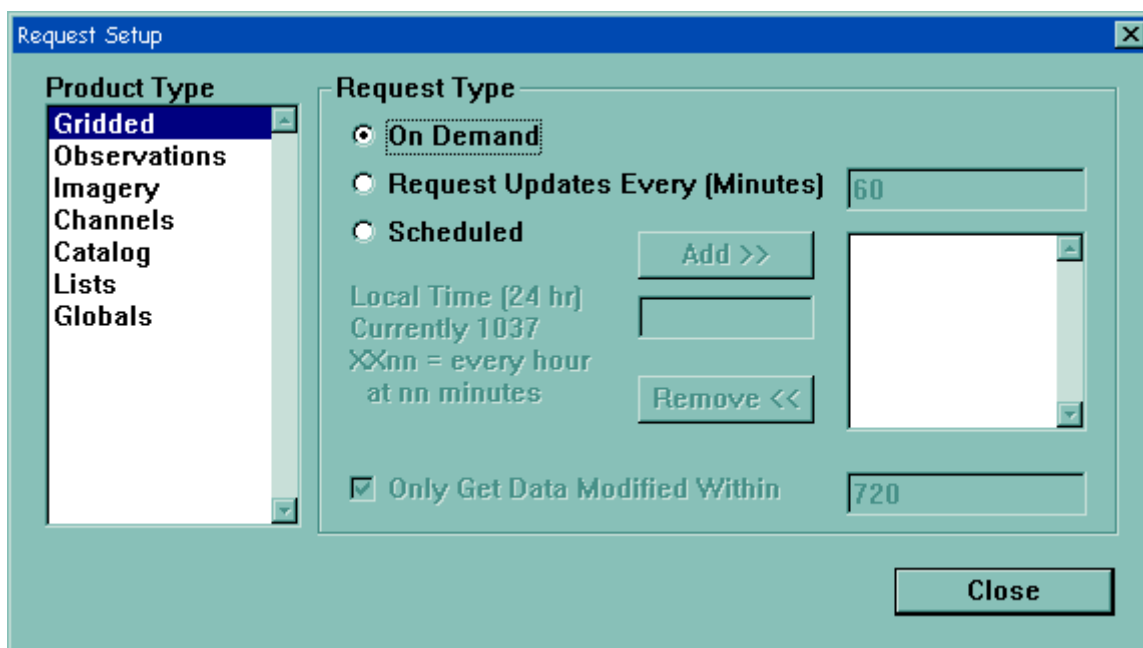


Figure B.4-3. Request Setup Dialog

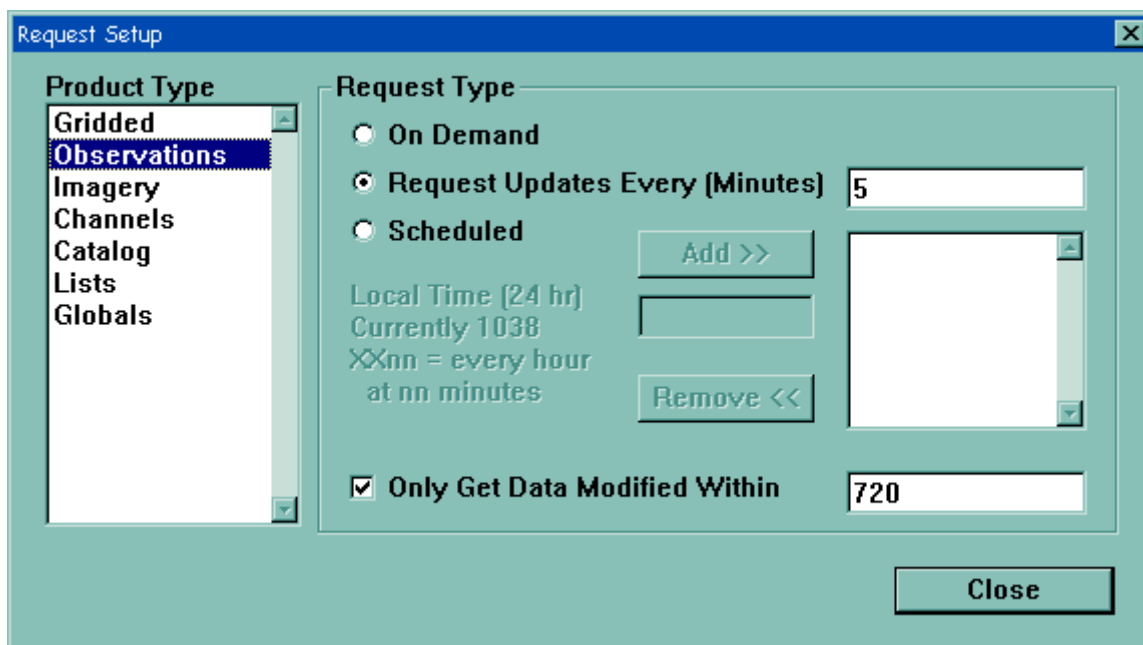


Figure B.4-4. Request Setup Options for Observations

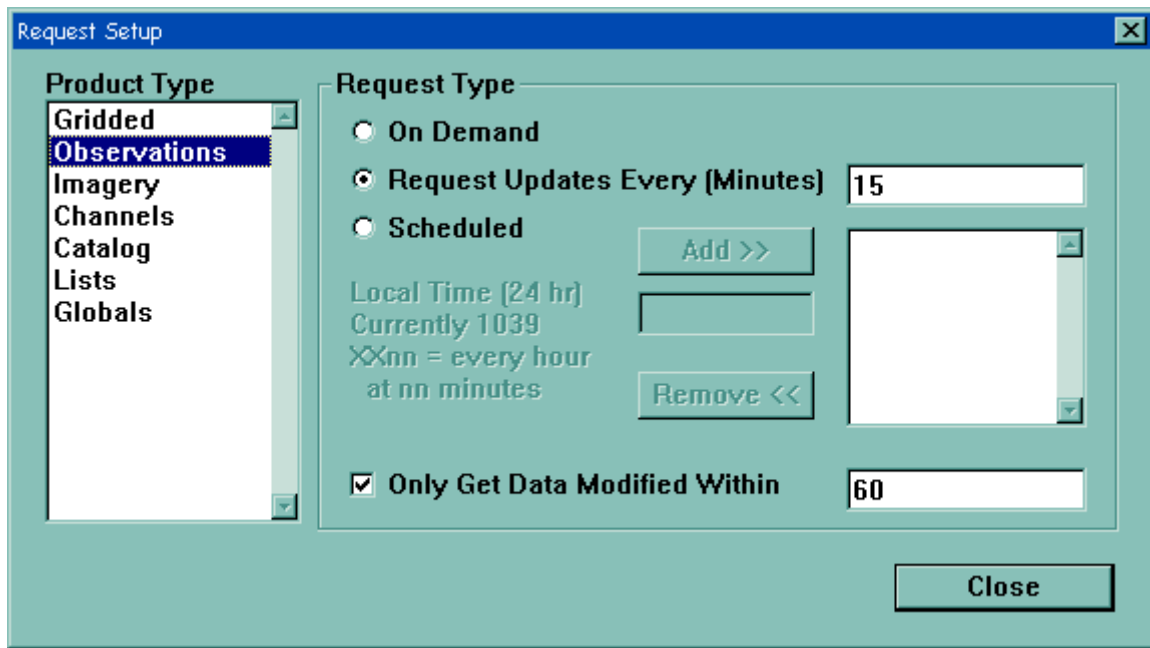


Figure B.4-5. Request Settings for Observations

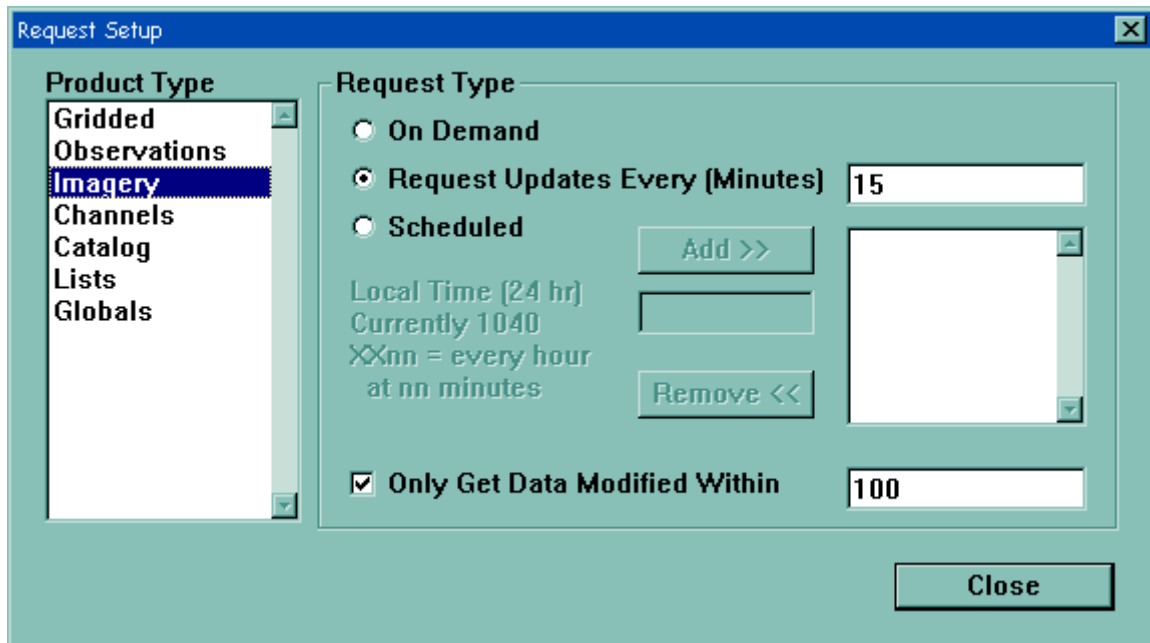


Figure B.4-6. Request Scheduling Options for Imagery

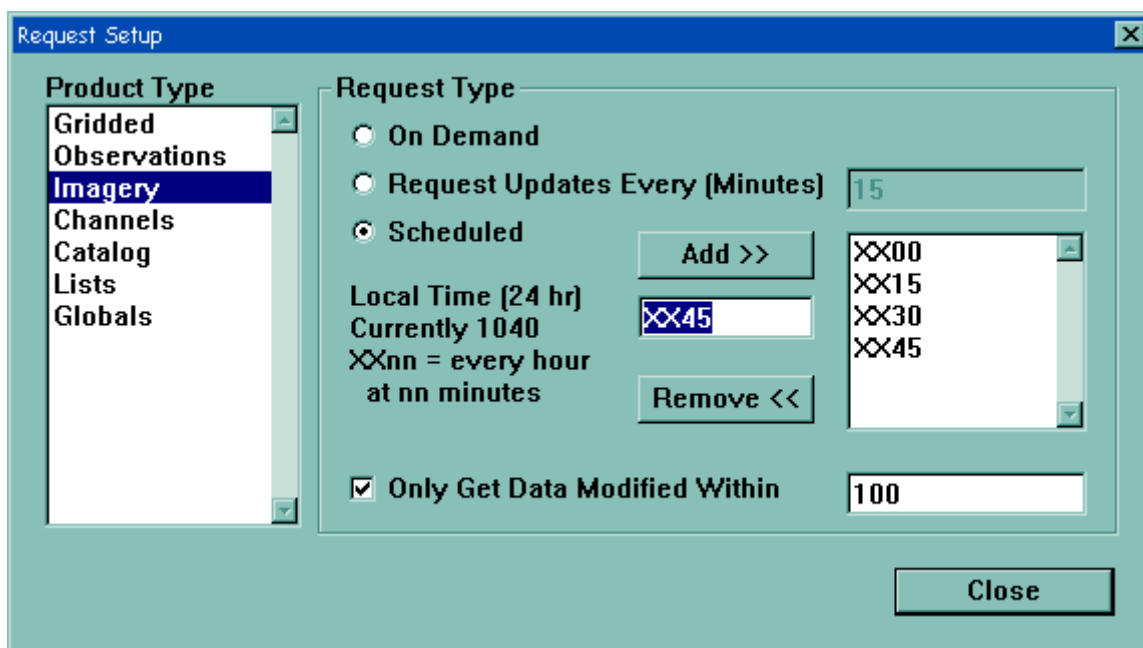


Figure B.4-7. Imagery Request Setup Options for Test

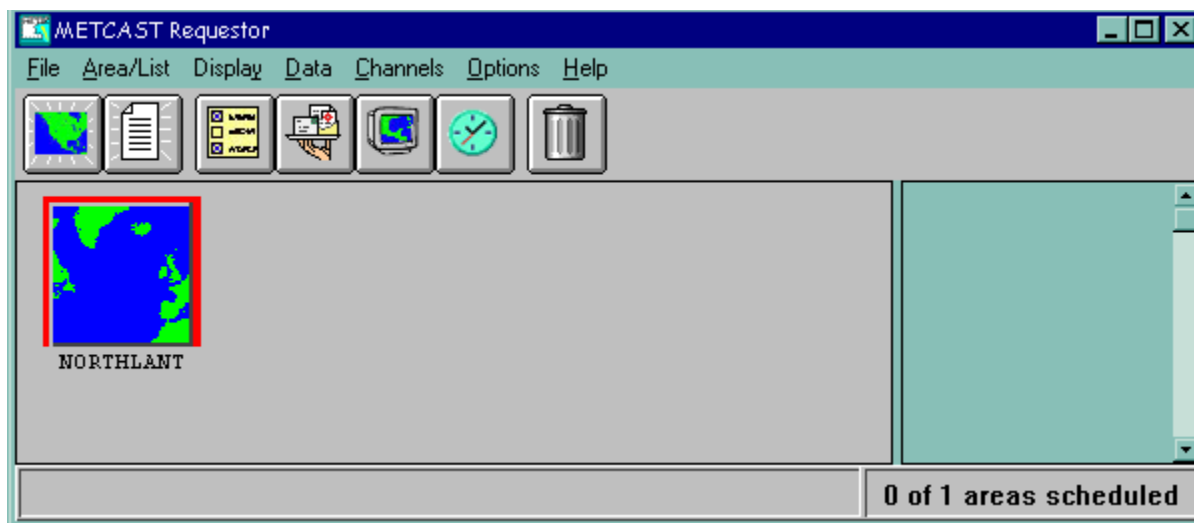


Figure B.4-8. METCAST Requestor With NORTHLANT Area Highlighted

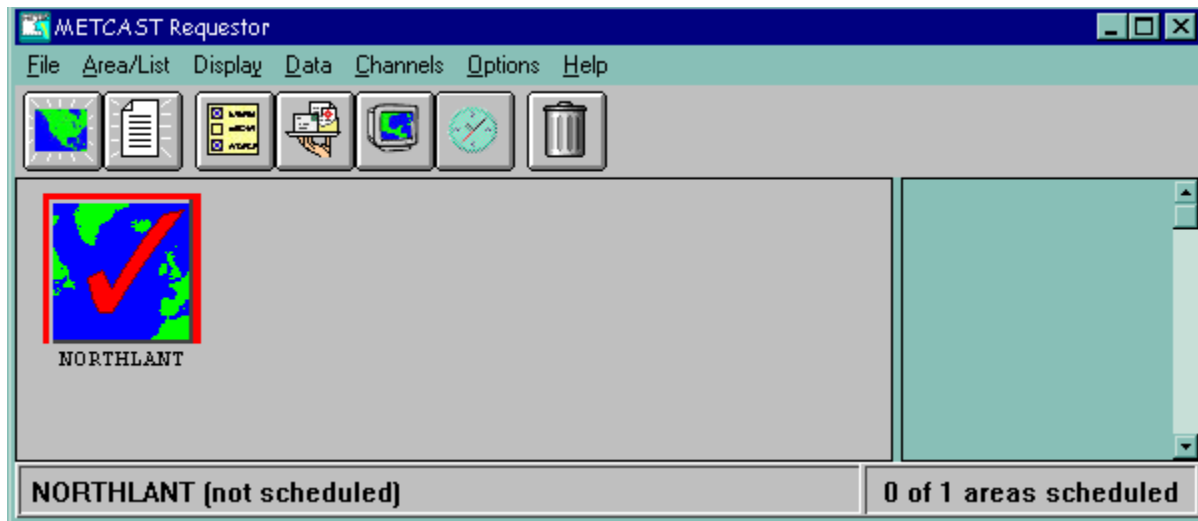


Figure B.4-9. METCAST Requestor With NORTHLANT Area Scheduled

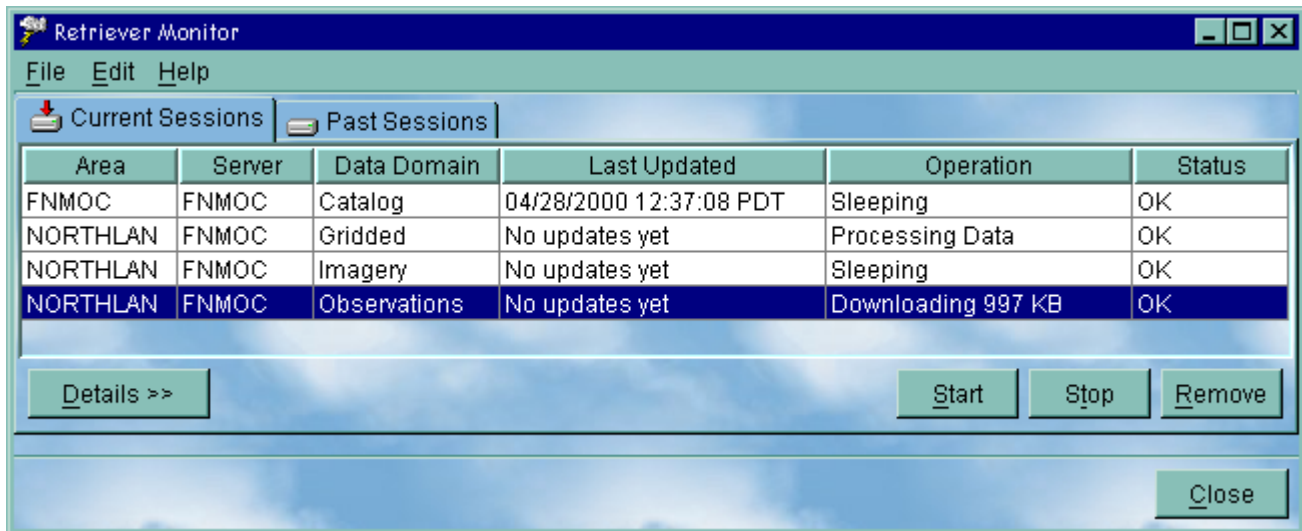


Figure B.4-10. The METCAST Retriever Monitor

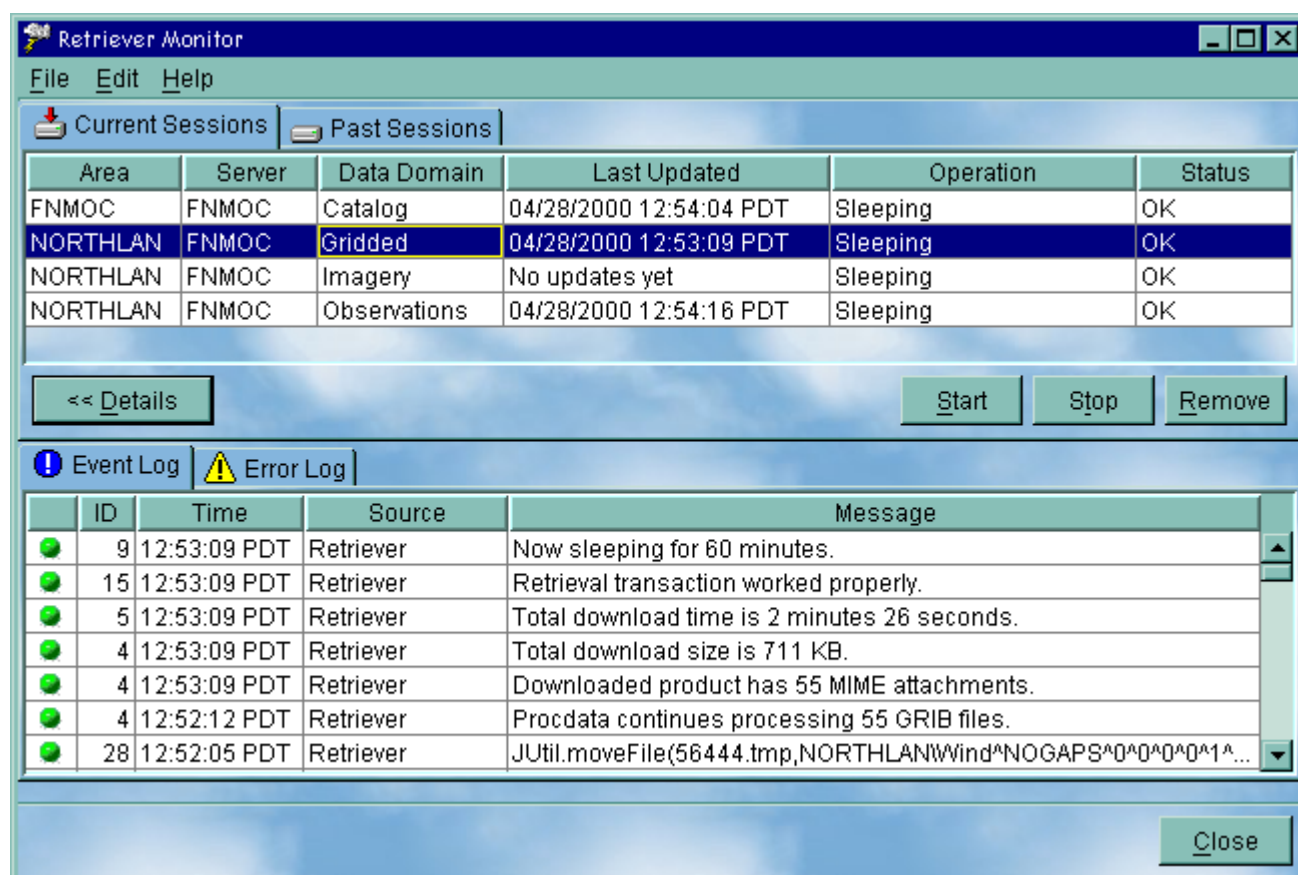
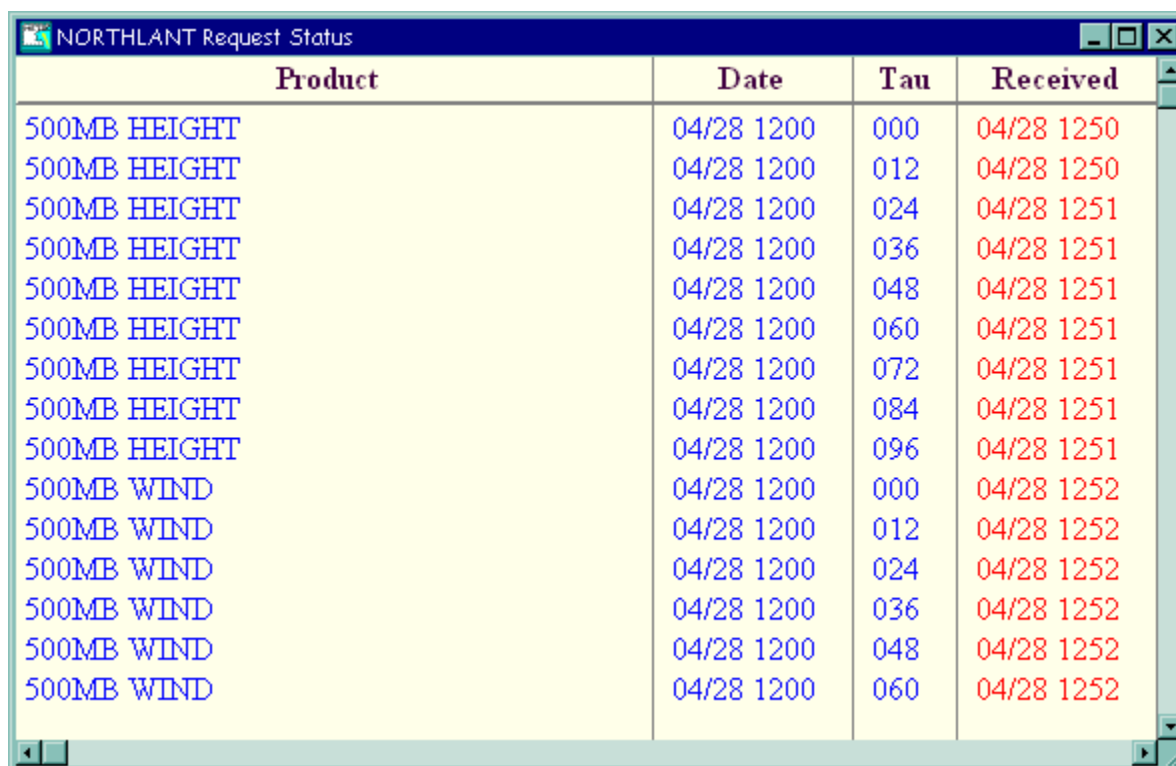


Figure B.4-11. Retriever Monitor Showing Gridded Retrieval Details



The screenshot shows a window titled "NORTHLANT Request Status". Inside the window is a table with four columns: "Product", "Date", "Tau", and "Received". The table contains 18 rows of data. The first 9 rows are for "500MB HEIGHT" and the next 9 rows are for "500MB WIND". All "Date" entries are "04/28 1200". "Tau" values range from 000 to 096 in increments of 12. "Received" times are "04/28 1250" for the first 9 rows and "04/28 1252" for the last 9 rows. The window has standard Windows 95-style controls (minimize, maximize, close) in the top right and a scrollbar on the right side.

Product	Date	Tau	Received
500MB HEIGHT	04/28 1200	000	04/28 1250
500MB HEIGHT	04/28 1200	012	04/28 1250
500MB HEIGHT	04/28 1200	024	04/28 1251
500MB HEIGHT	04/28 1200	036	04/28 1251
500MB HEIGHT	04/28 1200	048	04/28 1251
500MB HEIGHT	04/28 1200	060	04/28 1251
500MB HEIGHT	04/28 1200	072	04/28 1251
500MB HEIGHT	04/28 1200	084	04/28 1251
500MB HEIGHT	04/28 1200	096	04/28 1251
500MB WIND	04/28 1200	000	04/28 1252
500MB WIND	04/28 1200	012	04/28 1252
500MB WIND	04/28 1200	024	04/28 1252
500MB WIND	04/28 1200	036	04/28 1252
500MB WIND	04/28 1200	048	04/28 1252
500MB WIND	04/28 1200	060	04/28 1252

Figure B.4-12. Area Status Screen for NORTHLANT Area

B.5 Test 5 Output

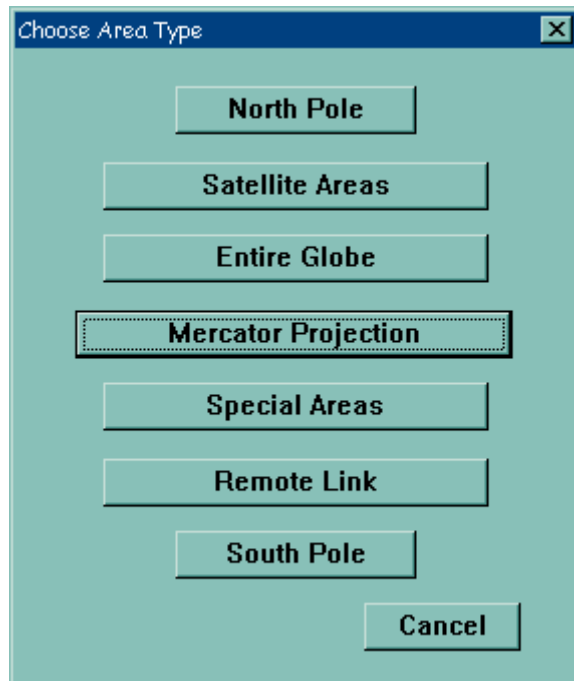


Figure B.5-1. Choose Area Type Dialog

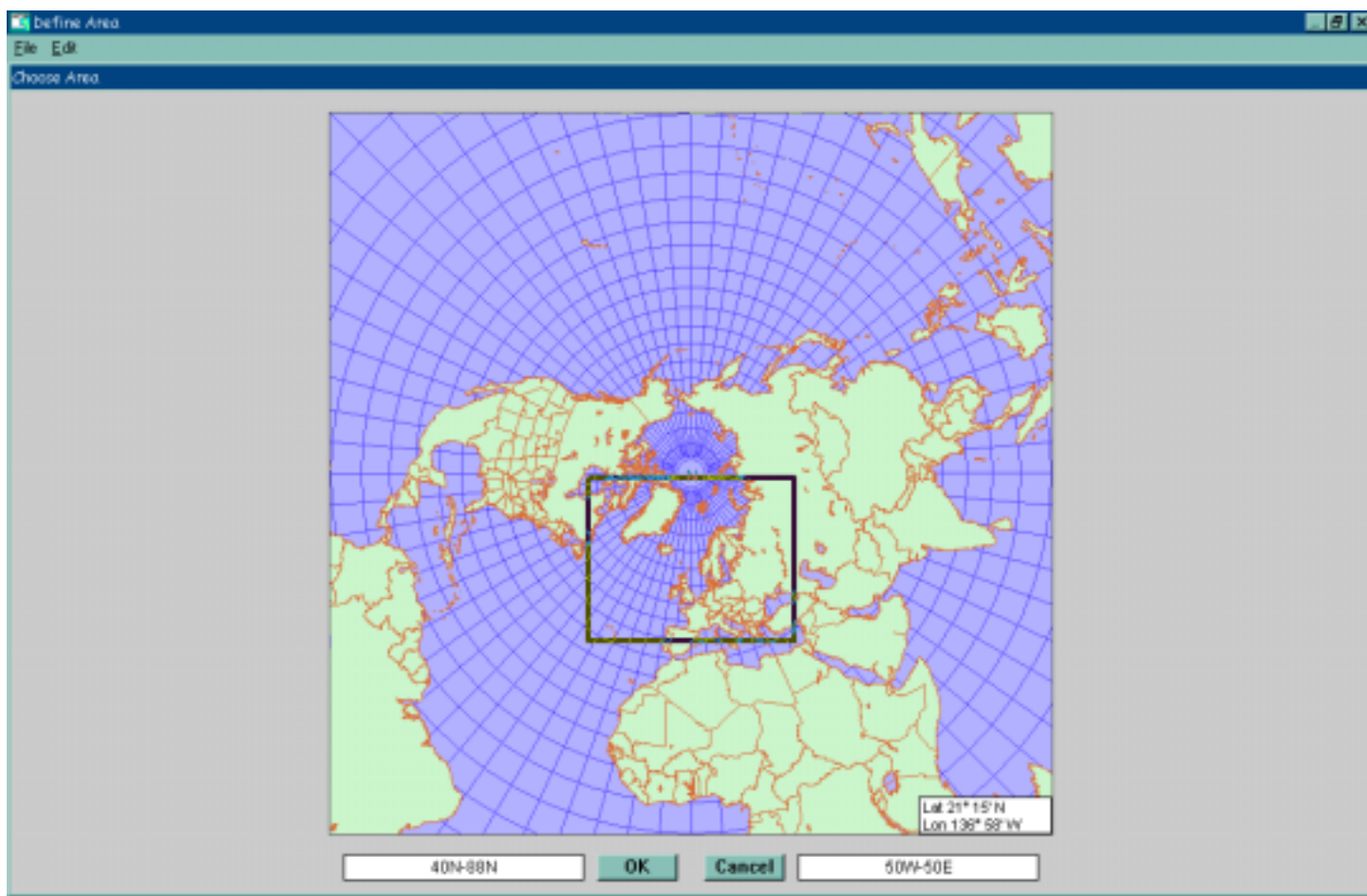


Figure B.5-2. North Pole Area Definition Screen

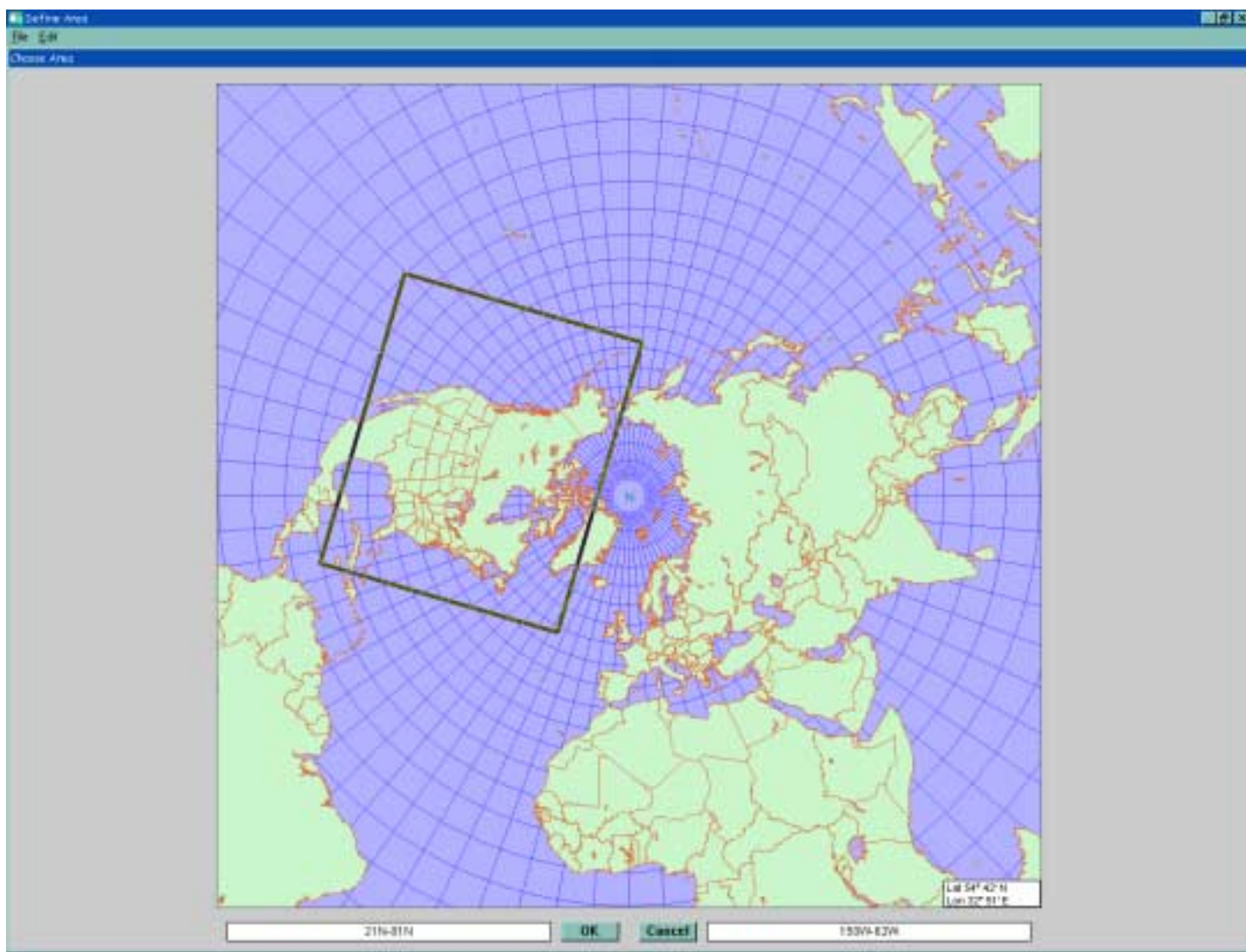


Figure B.5-3. North Pole Area Definition Screen With North America Area Selected

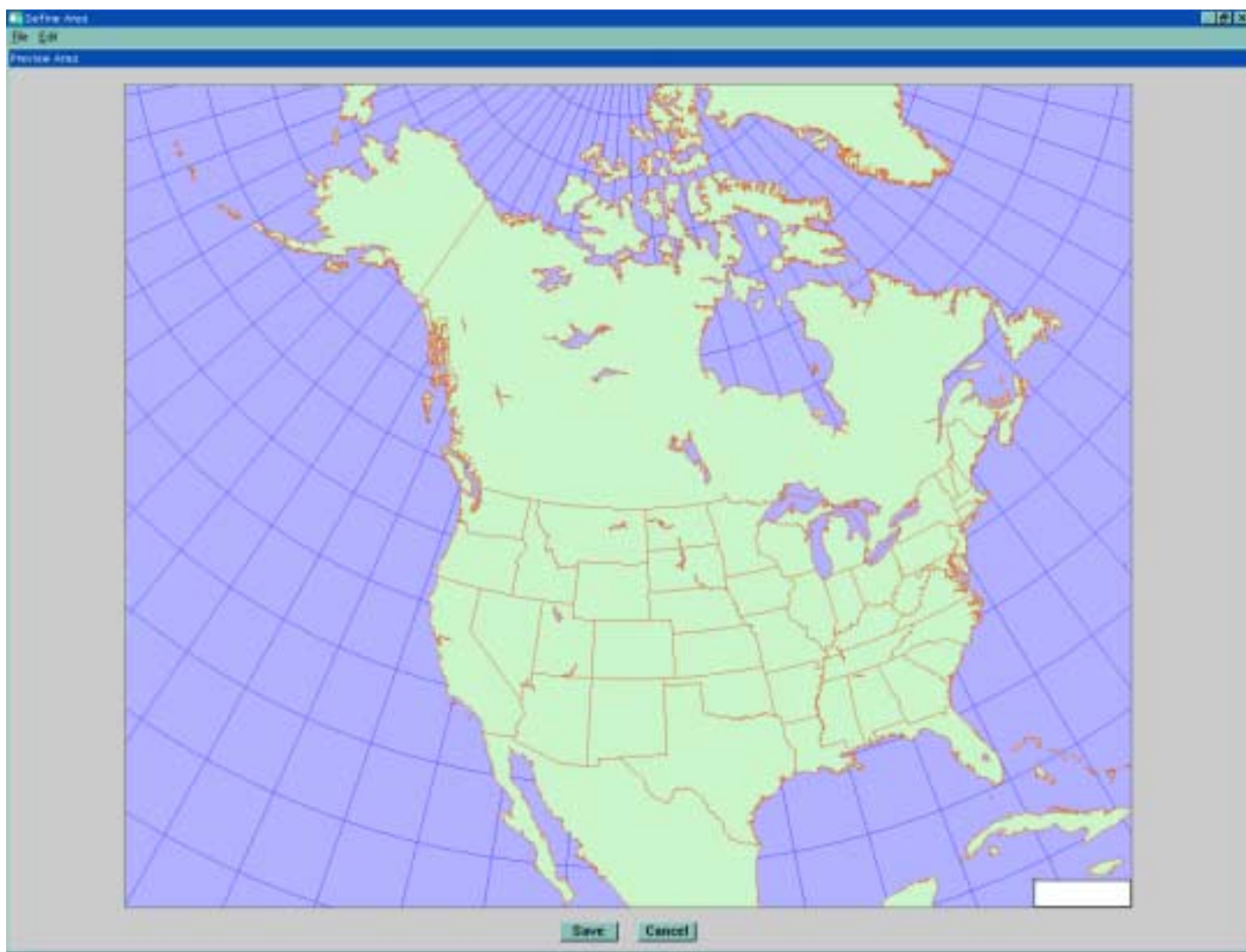


Figure B.5-4. Preview Area Screen for North America Area

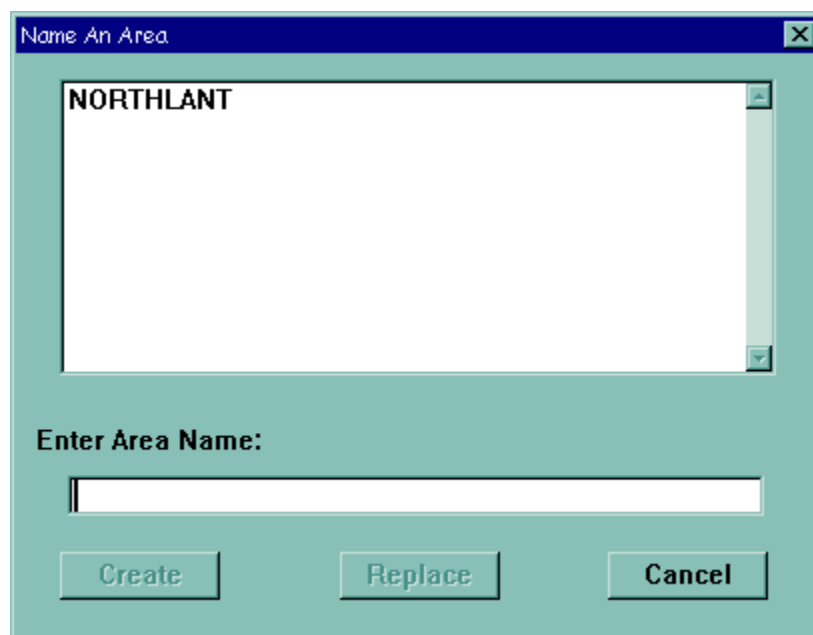


Figure B.5-5. Name an Area Dialog

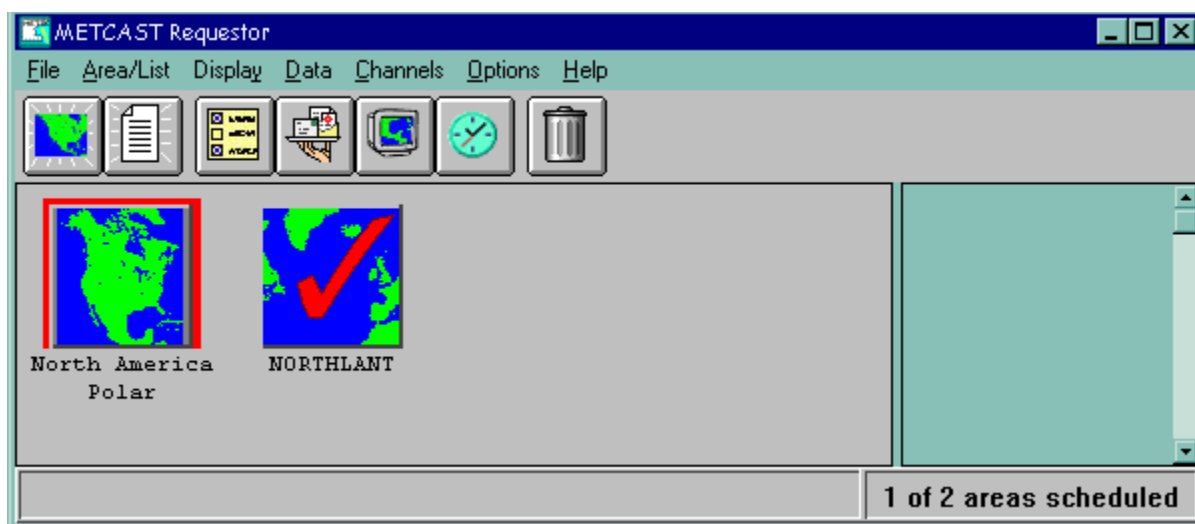


Figure B.5-6. METCAST Requestor Showing North America Polar Area

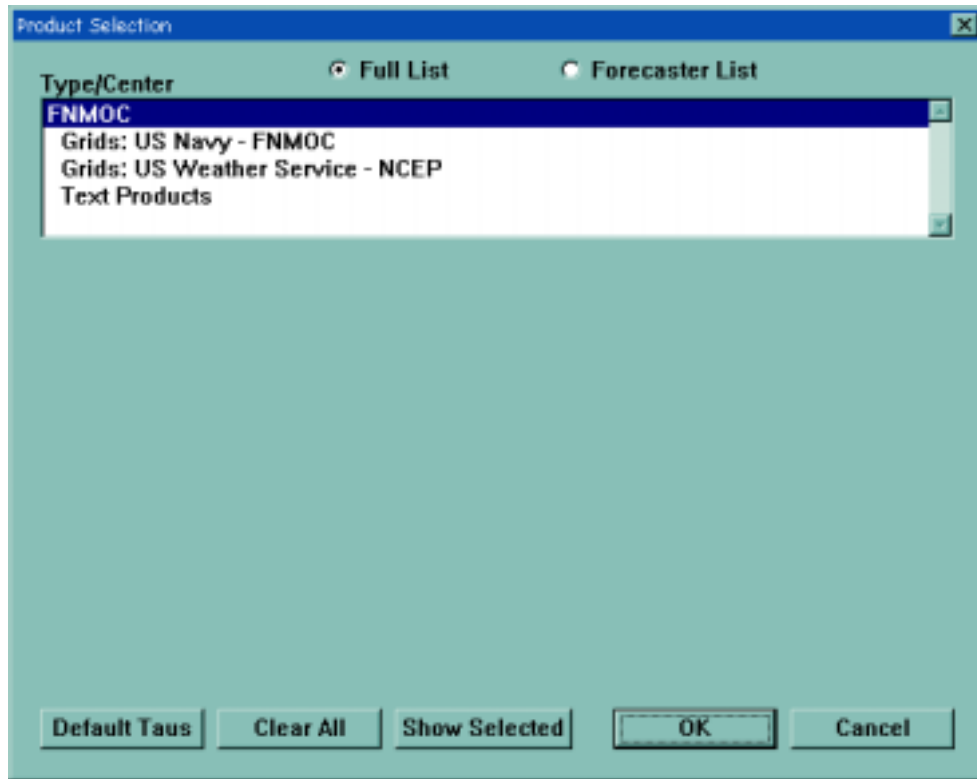


Figure B.5-7. Product Selection Dialog

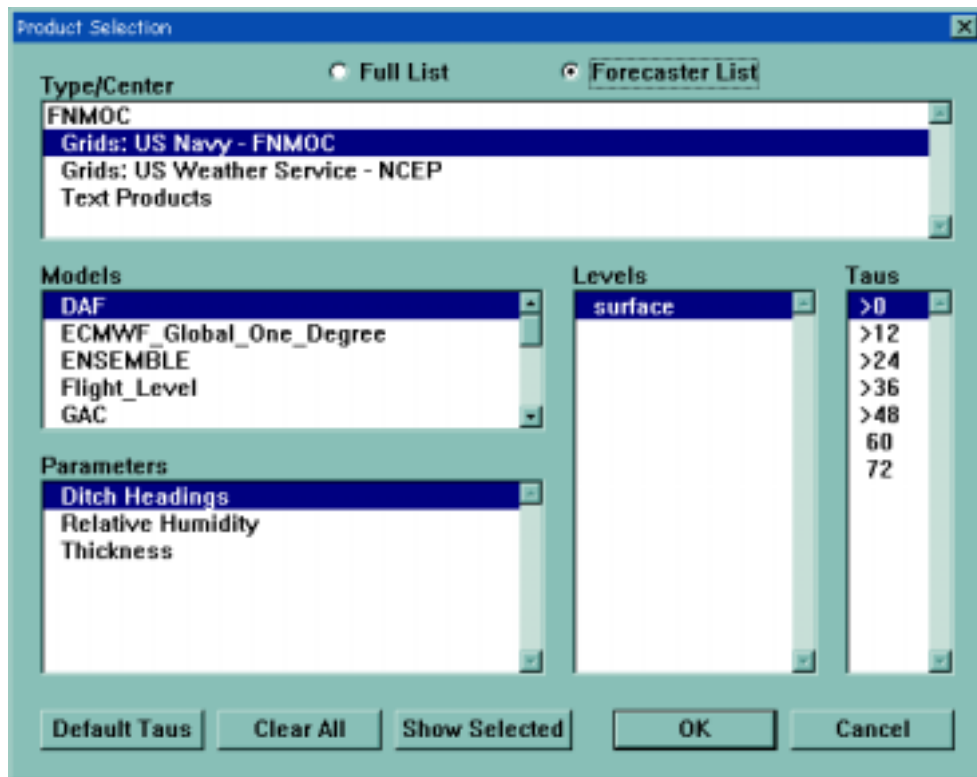


Figure B.5-8. Product Selection Dialog With FNMOC Grids Selections

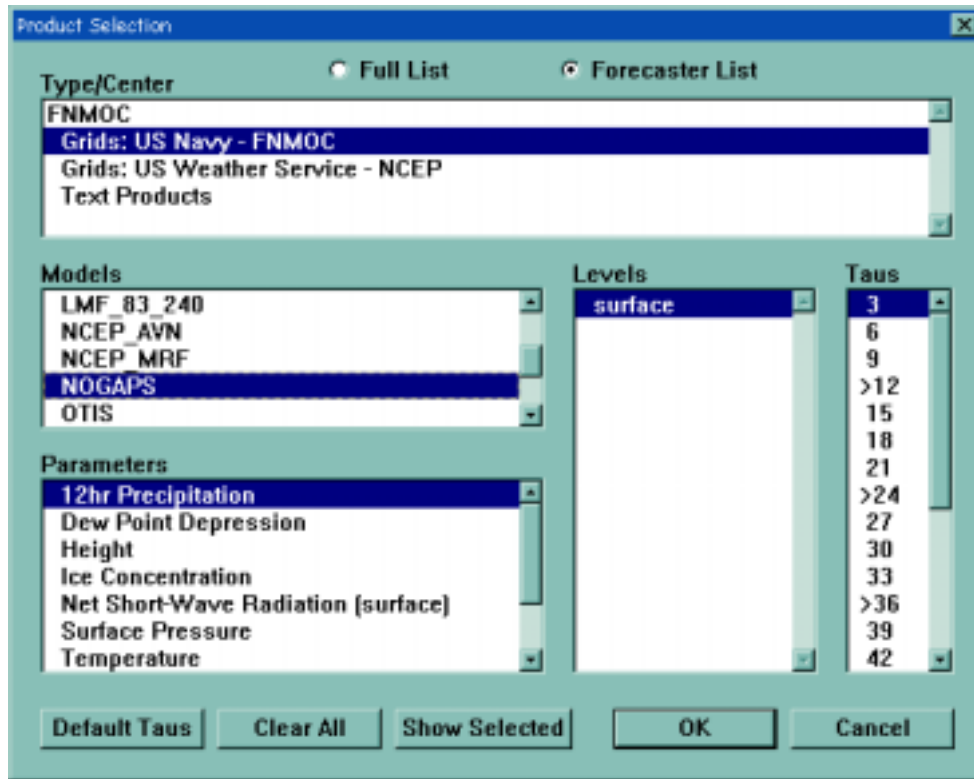


Figure B.5-9. Product Selection Dialog Showing FNMOC NOGAPS Selections

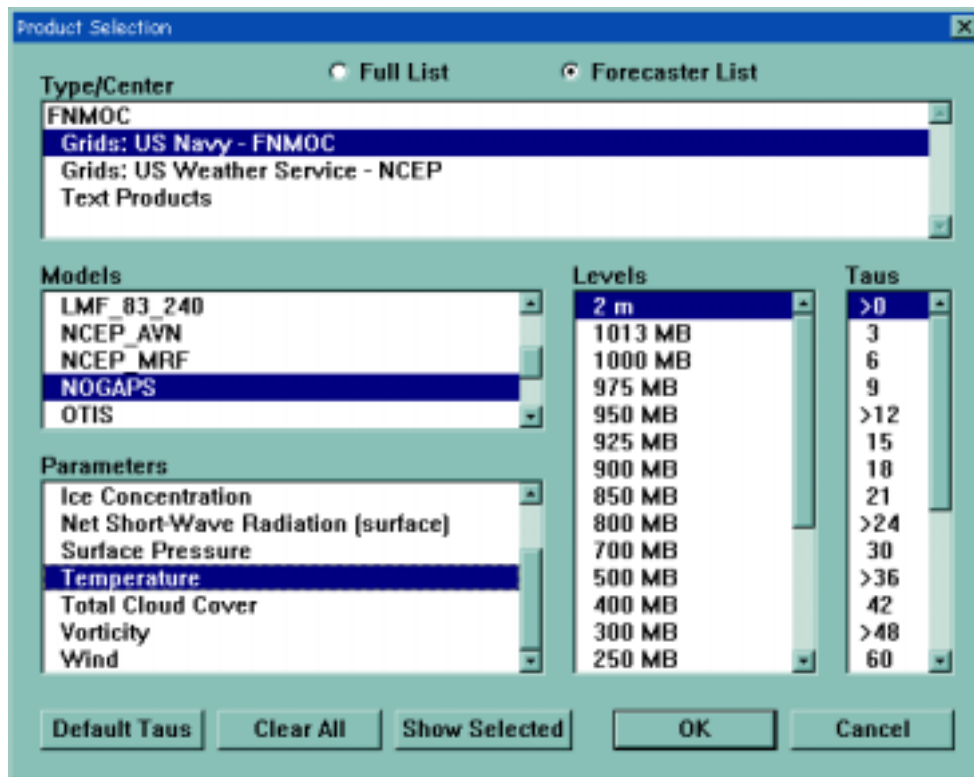


Figure B.5-10. Product Selection Dialog Showing NOGAPS Temperature Selections

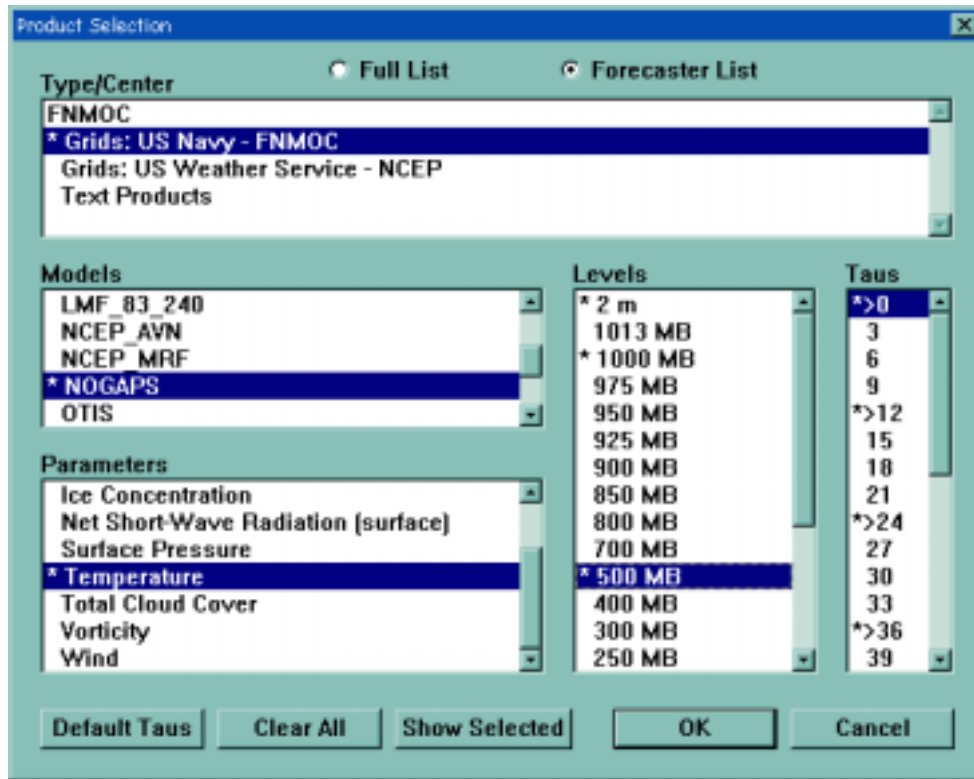


Figure B.5-11. Product Selection Dialog Showing Test Selections for Temperature

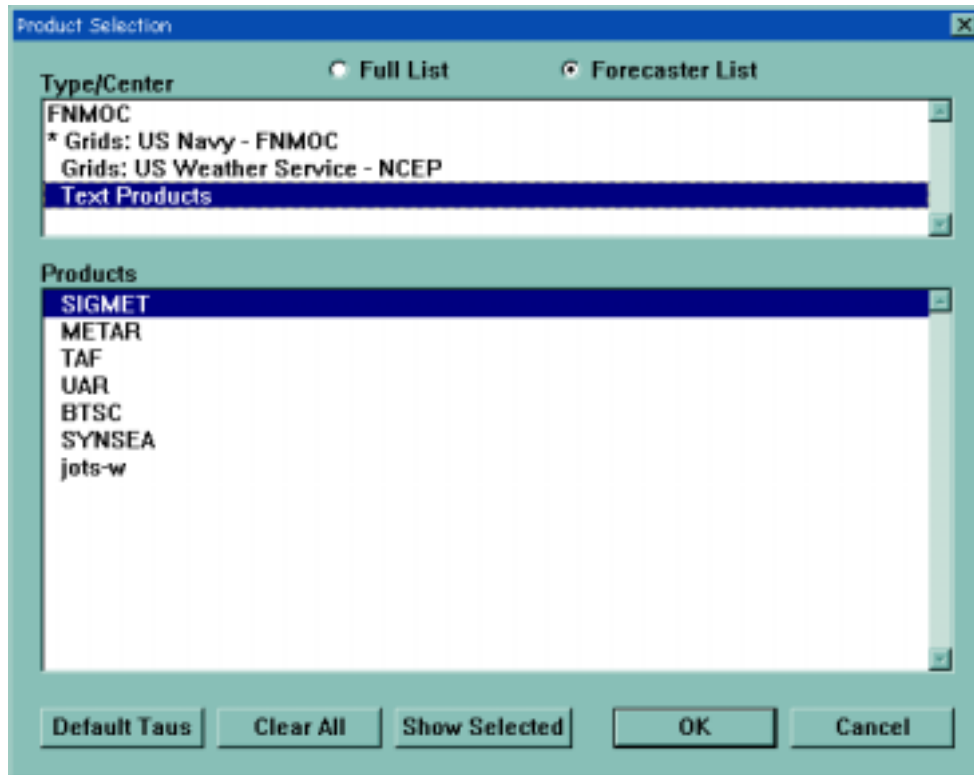


Figure B.5-12. Product Selection Dialog Showing Available Text Products

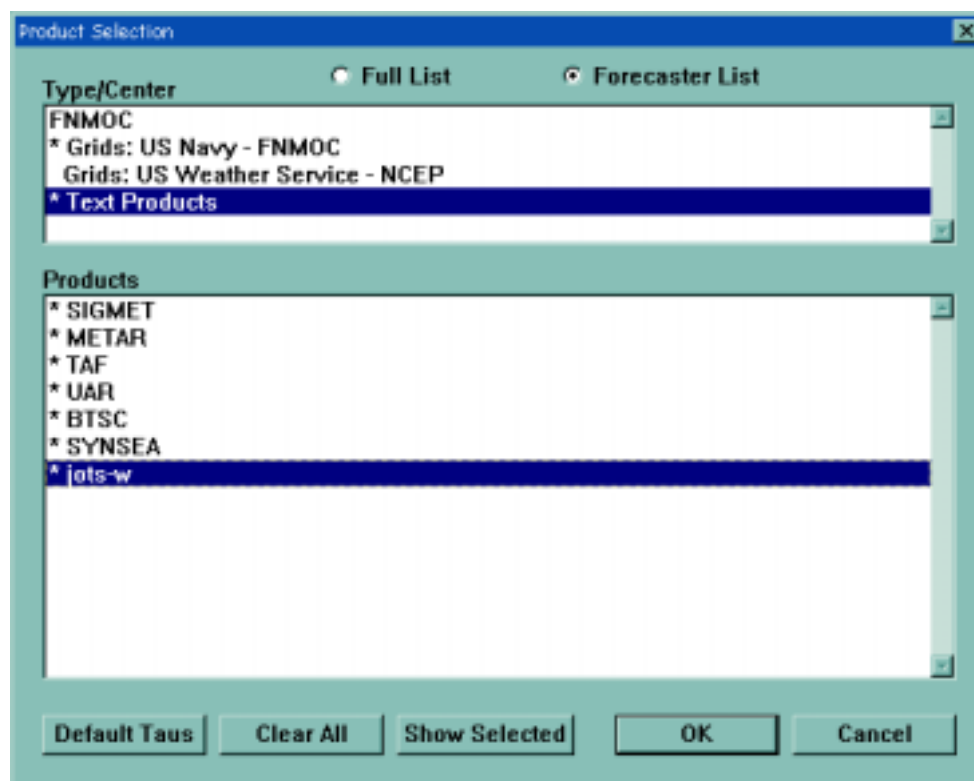


Figure B.5-13. Product Selection Dialog With All Text Products Selected

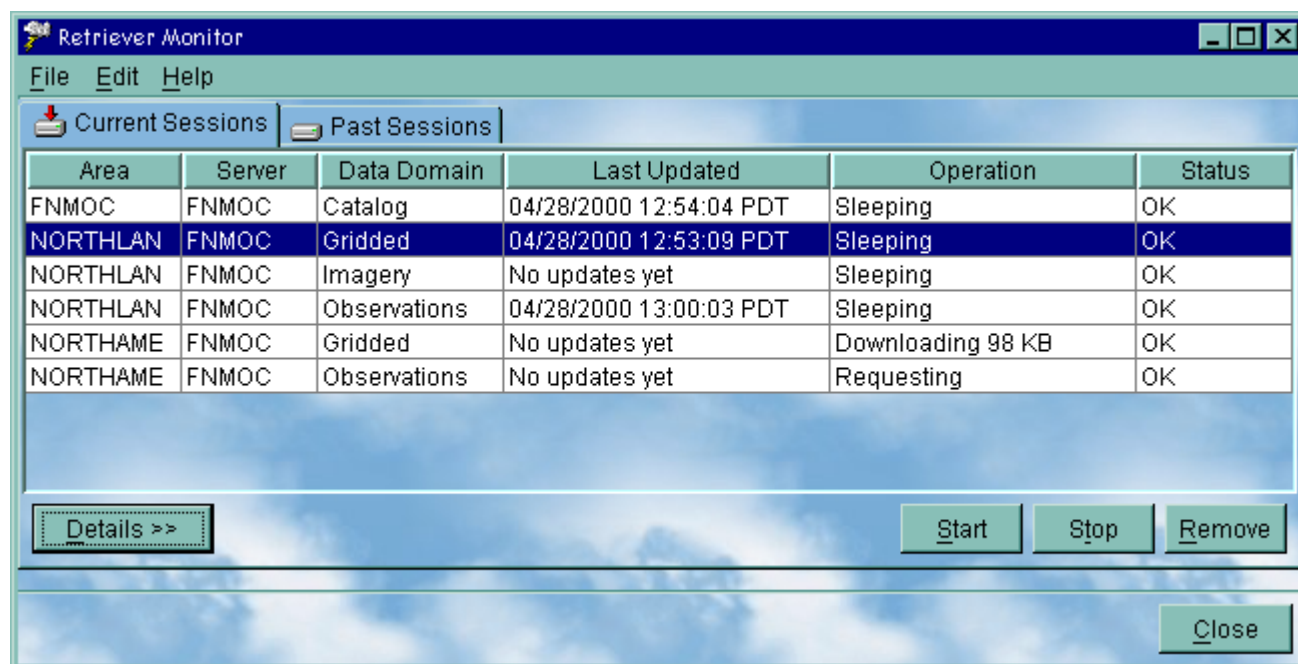


Figure B.5-14. Retriever Monitor Showing Retrievals in Progress

B.6 Test 6 Output

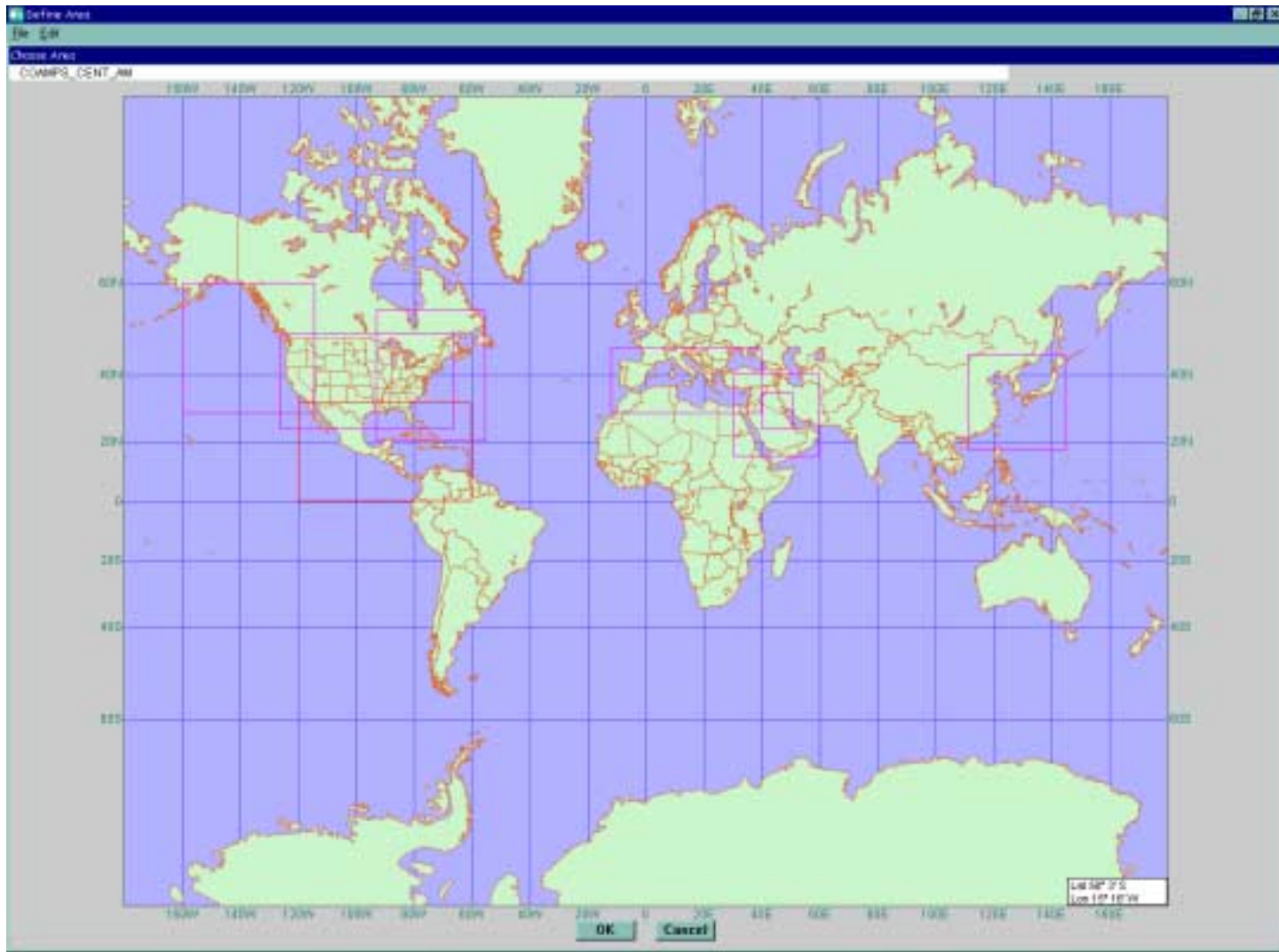


Figure B.6-1. Define Area Dialog for Special Areas

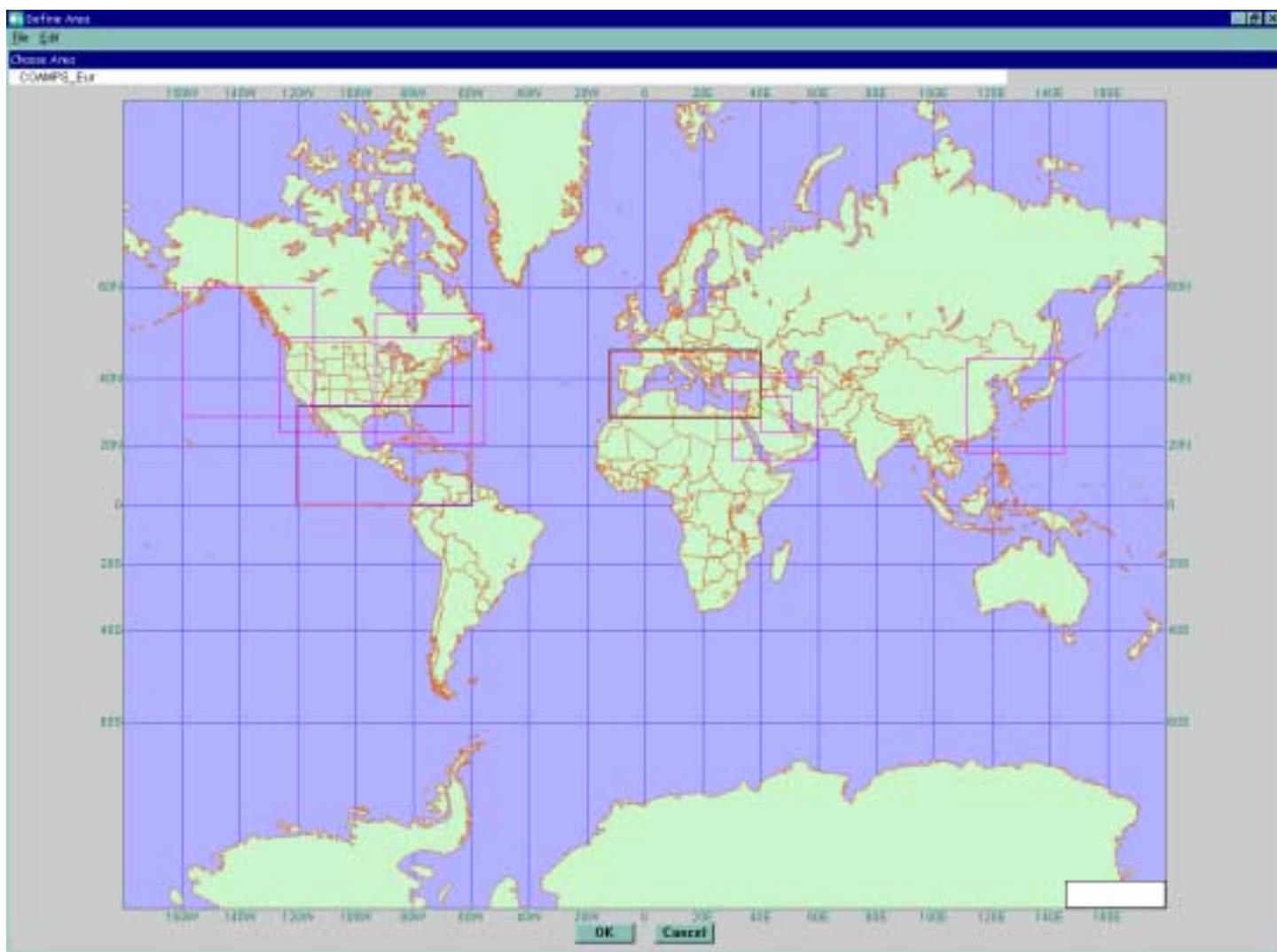


Figure B.6-2. Special Areas Dialog With COAMPS_Eur Area Selected

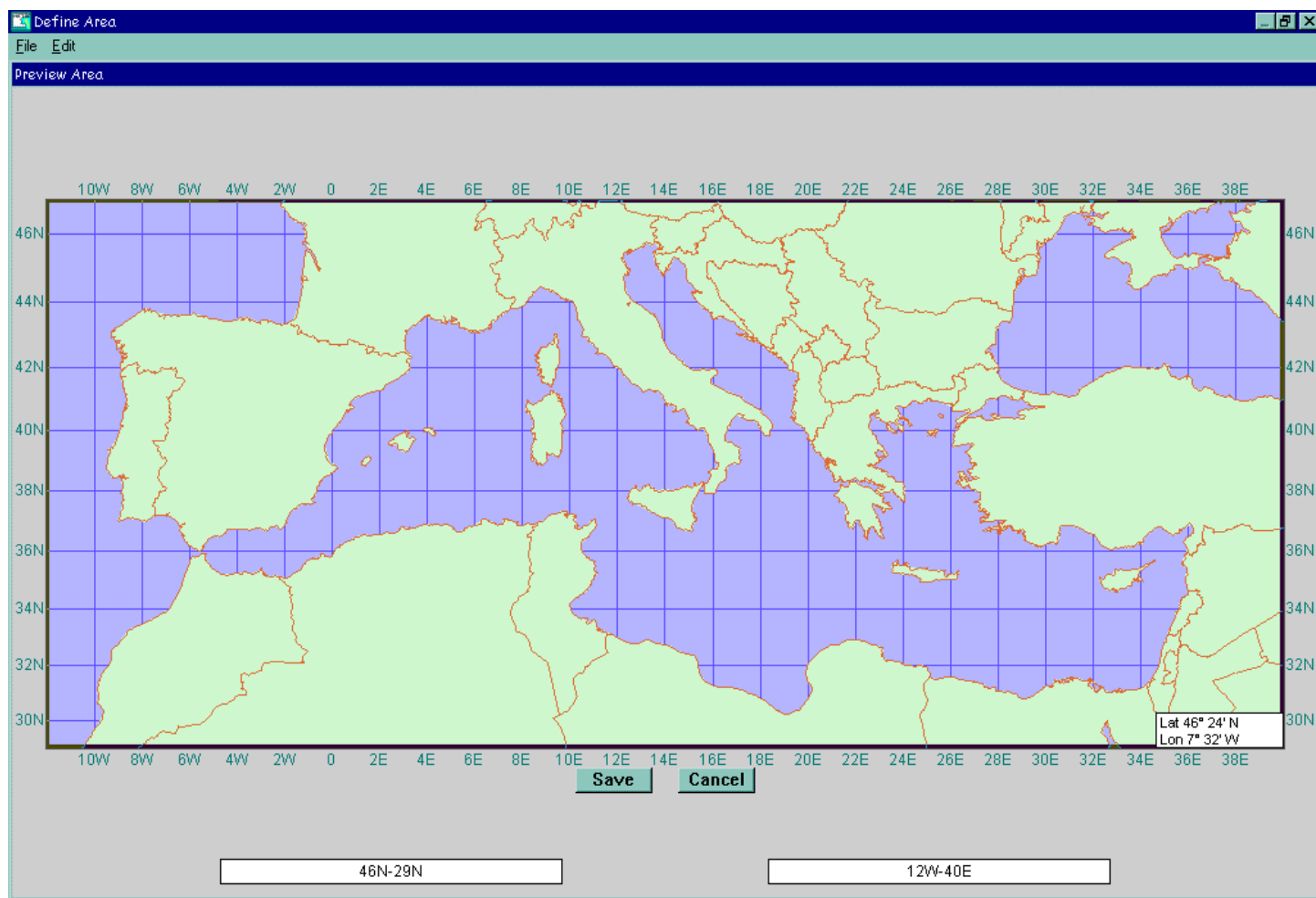


Figure B.6-3. Preview Area Dialog for the COAMPS_Eur Area

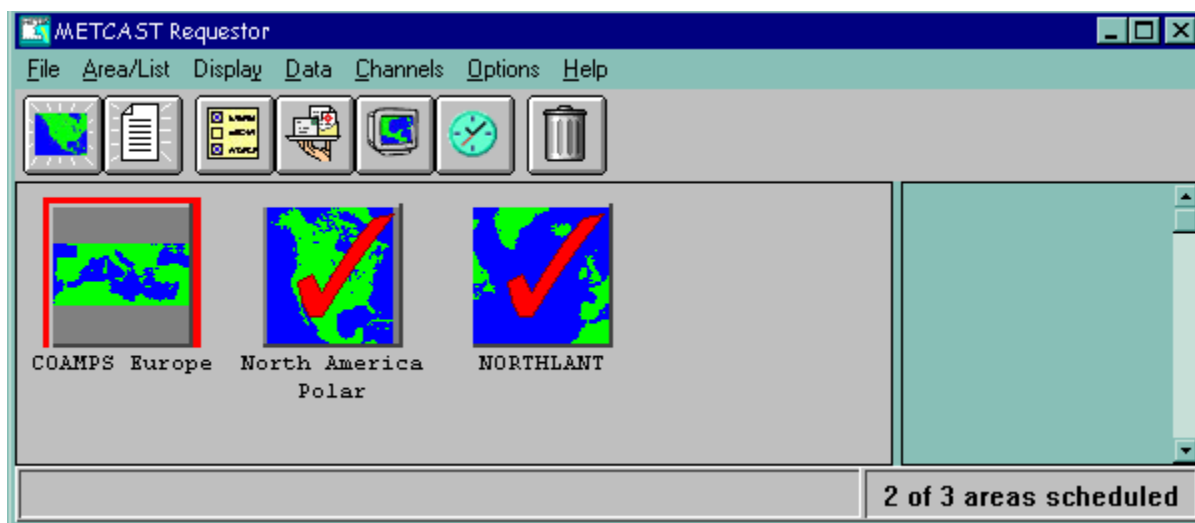


Figure B.6-4. METCAST Requestor Screen Showing COAMPS Europe Area

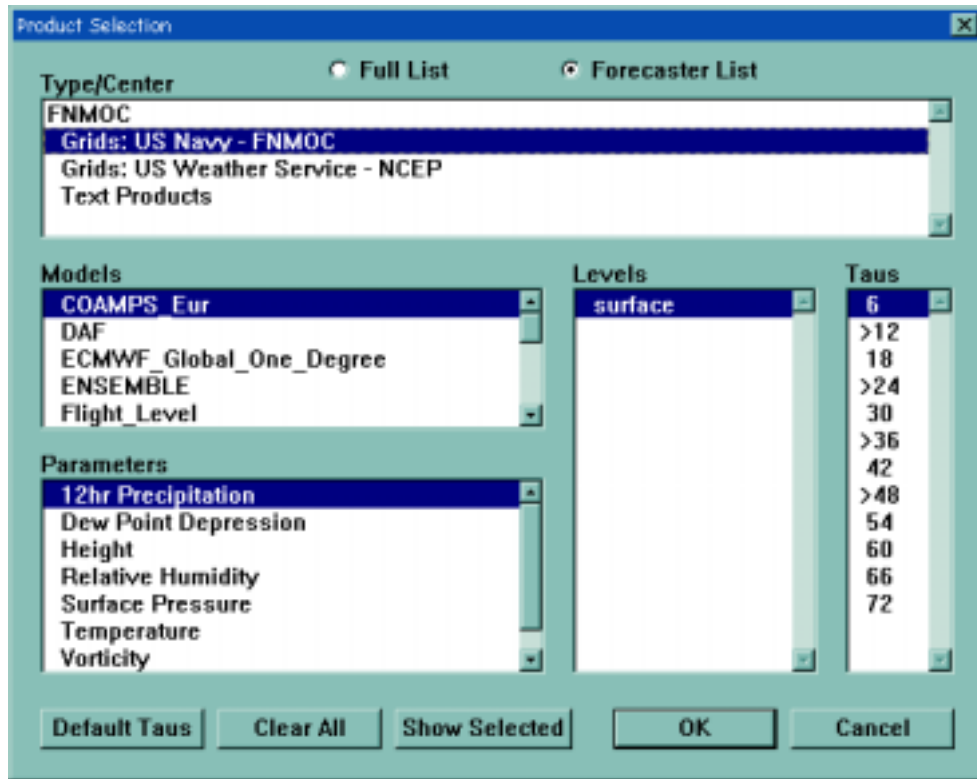


Figure B.6-5. Product Selection Dialog Showing FNMOC Grids

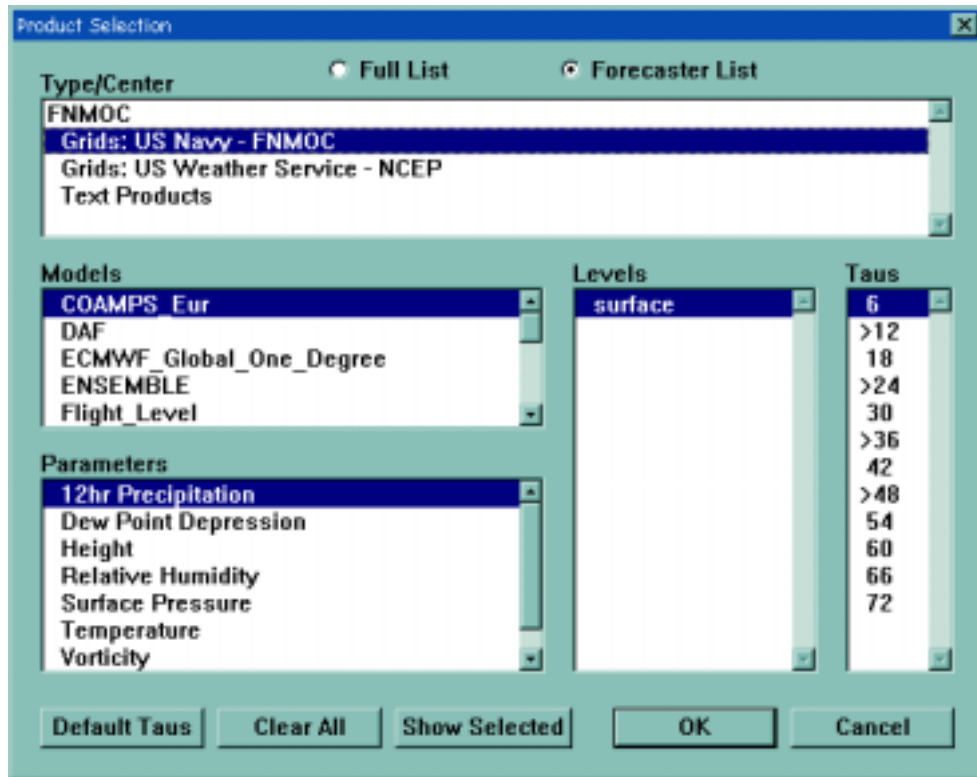


Figure B.6-6. Product Selection Dialog Showing COAMPS_Eur Products

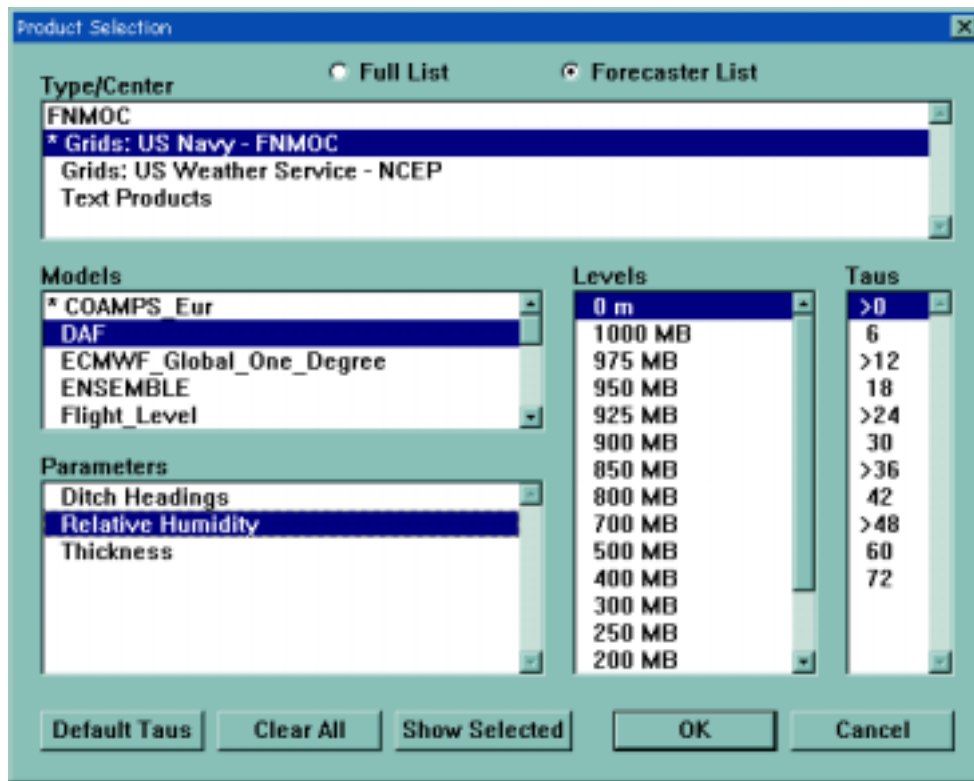


Figure B.6-7. Product Selection Dialog Showing DAF Relative Humidity Products

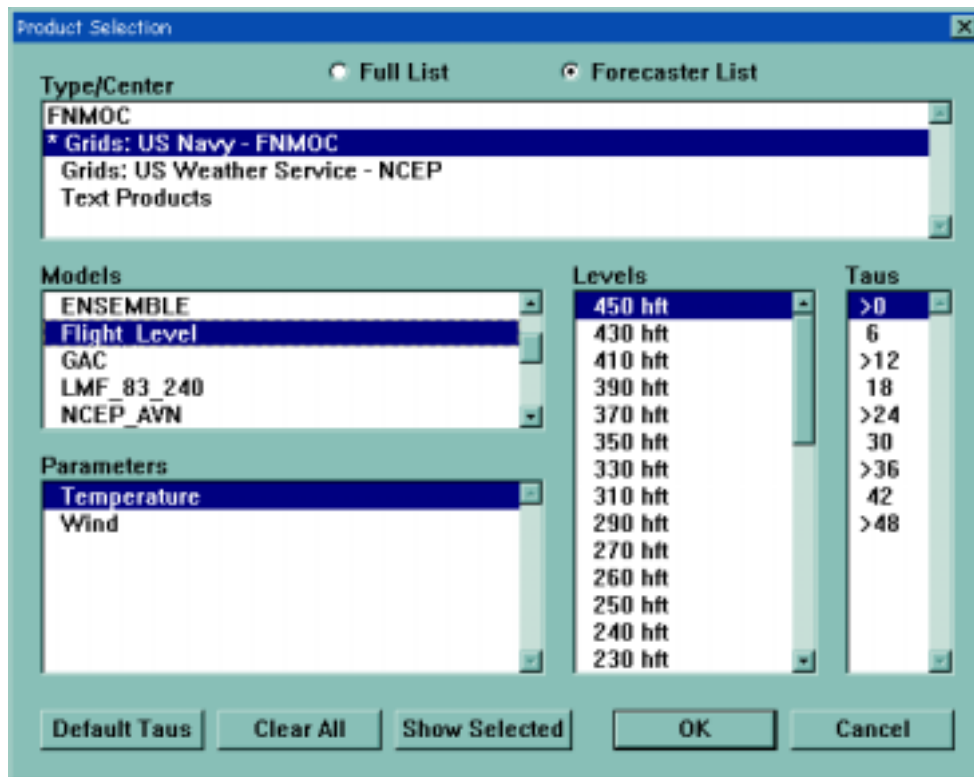


Figure B.6-8. Product Selection Dialog Showing Flight Level Products

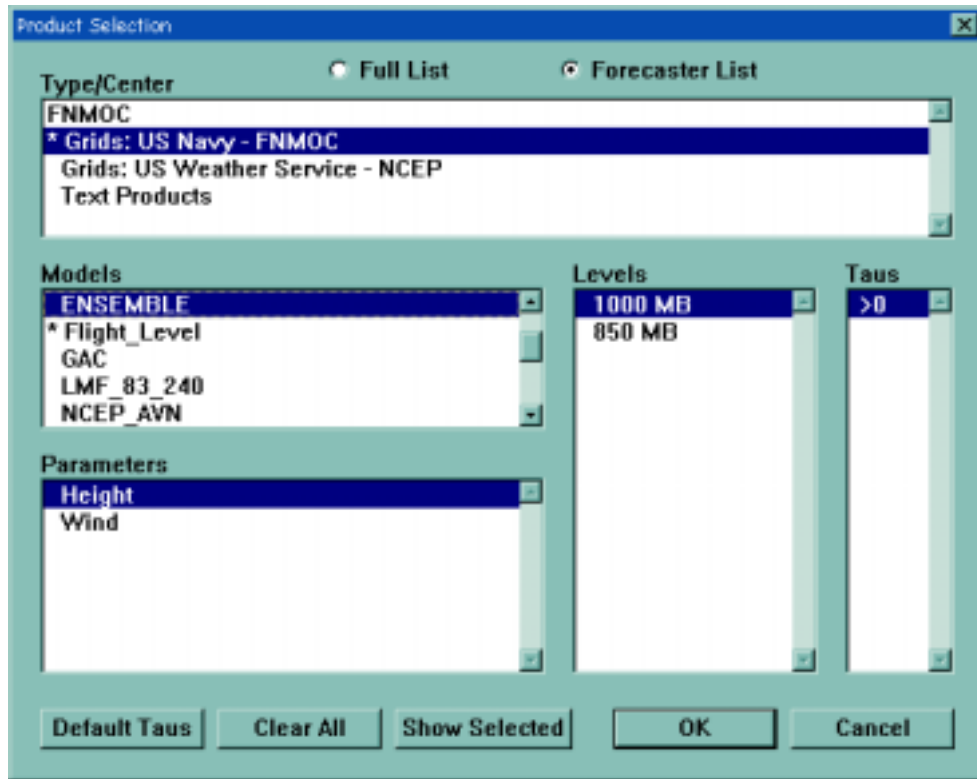


Figure B.6-9. Product Selection Dialog Showing ENSEMBLE Products

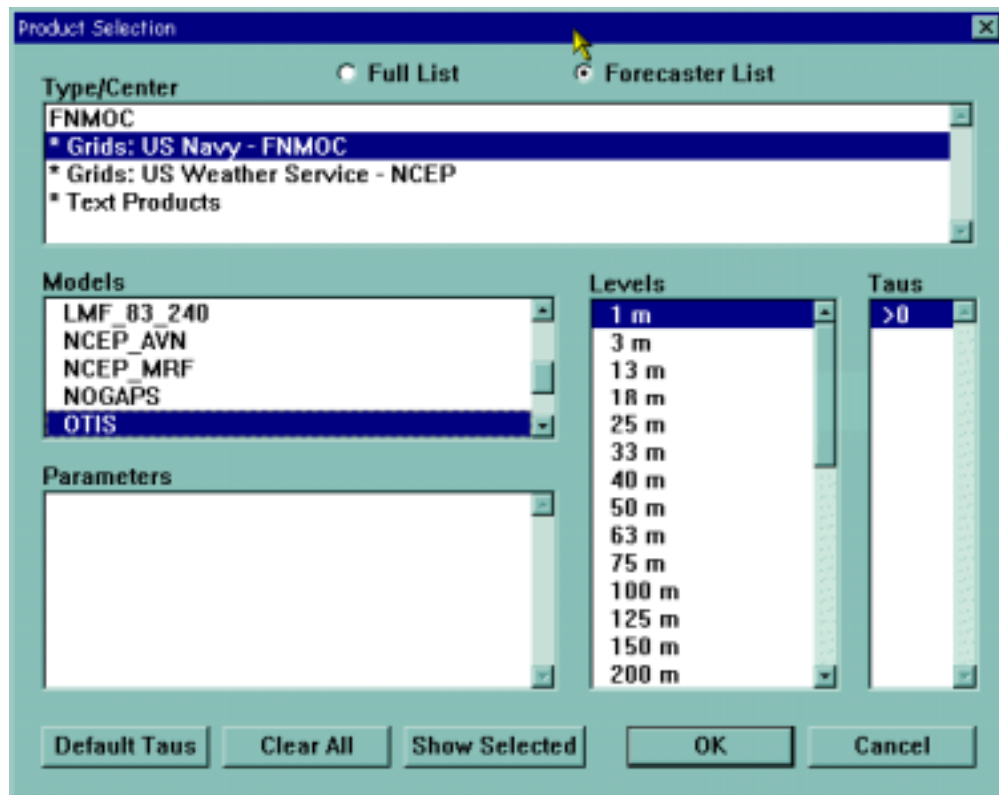


Figure 6.10. Product Selection Dialog Showing OTIS Products

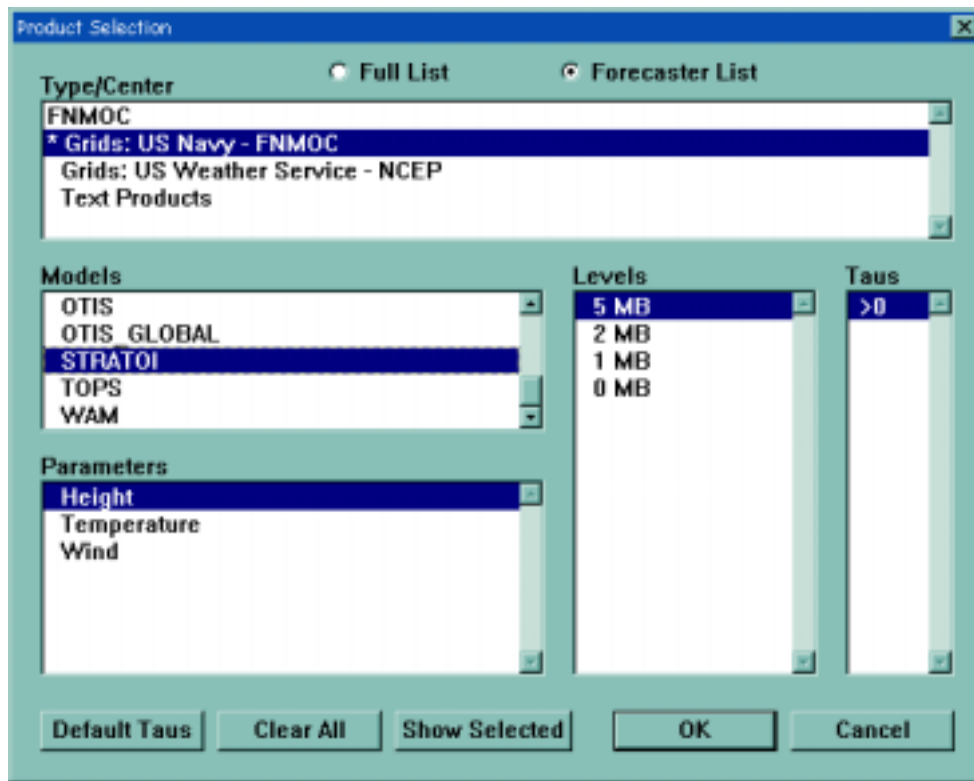


Figure B.6-11. Product Selection Dialog Showing STRATOI Products

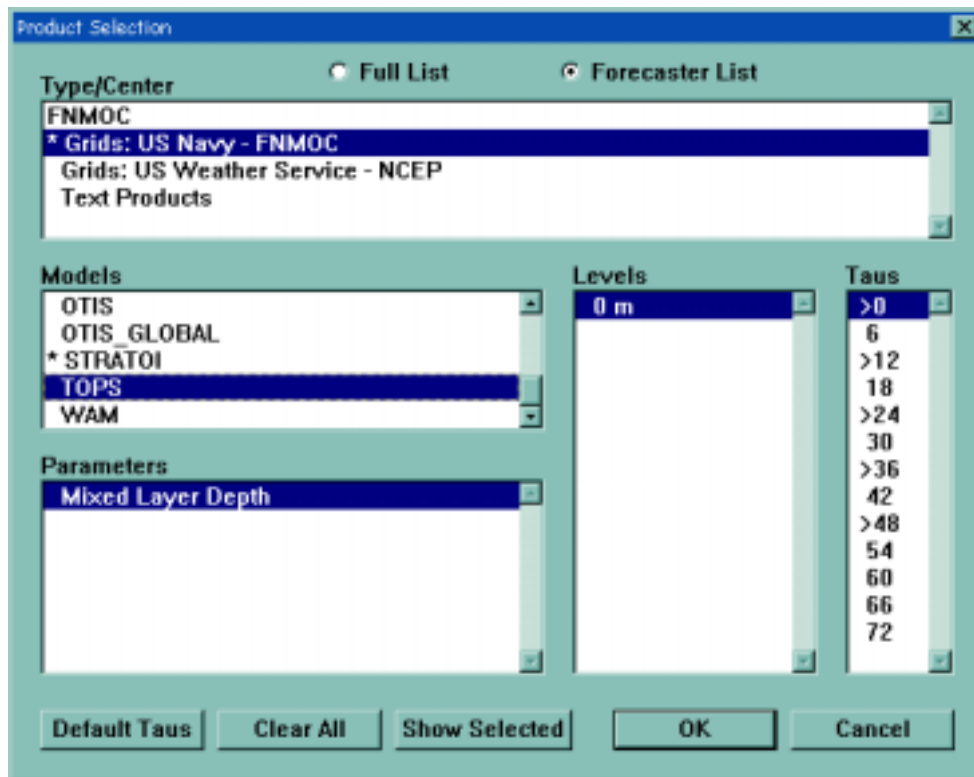


Figure B.6-12. Product Selection Dialog Showing TOPS Products

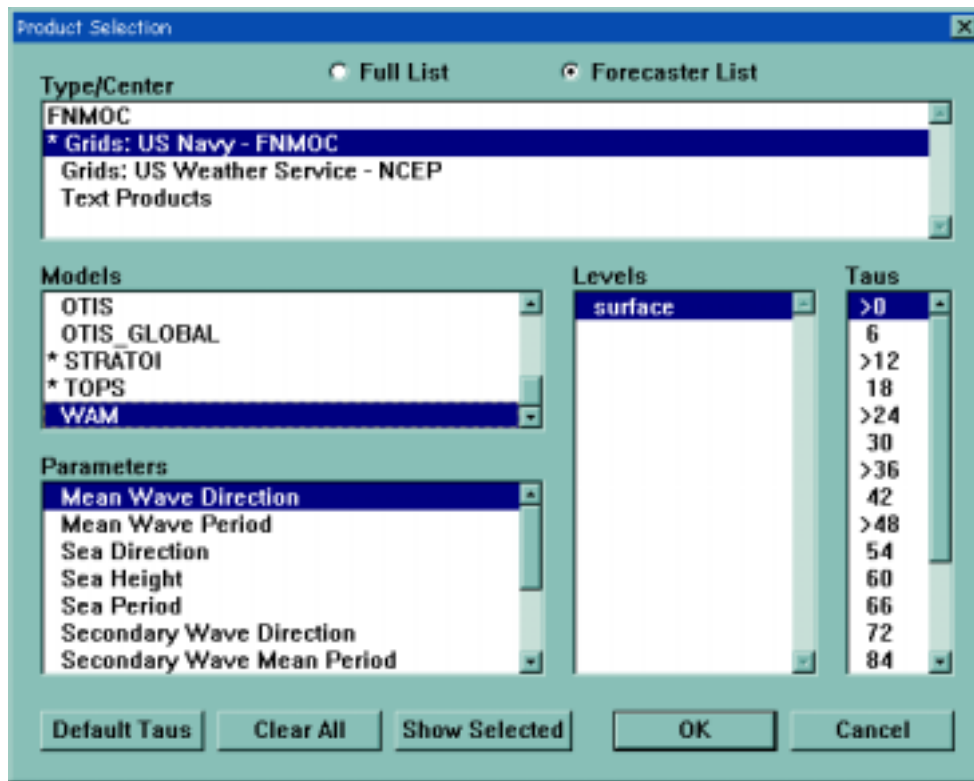


Figure B.6-13. Product Selection Dialog Showing WAM Products

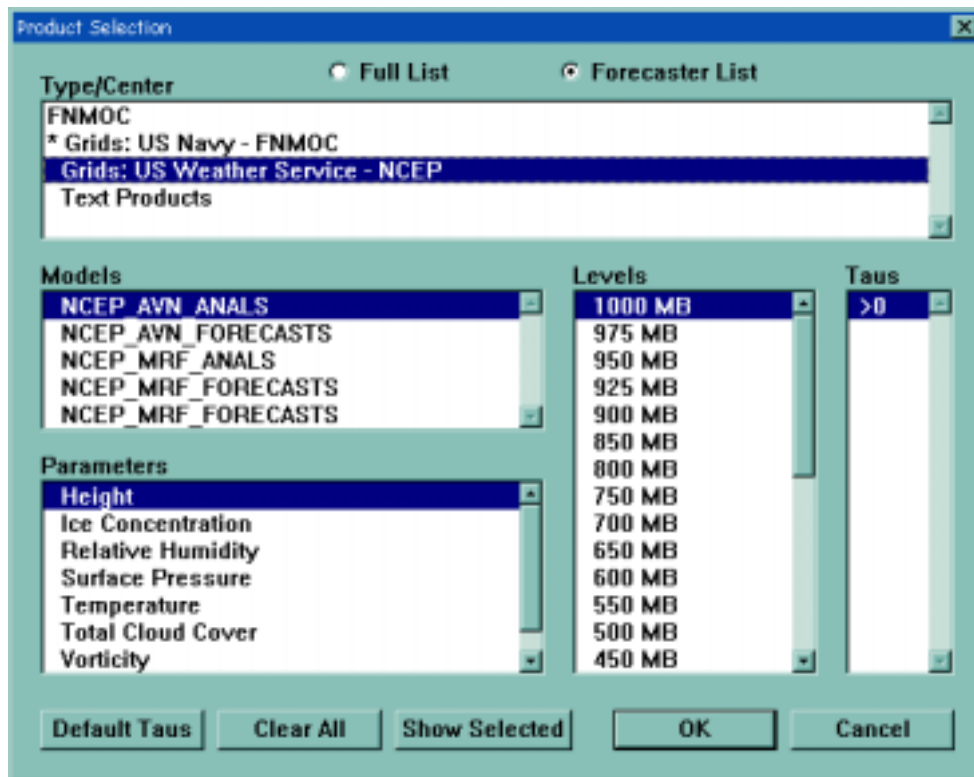


Figure B.6-14. Product Selection Dialog Showing NCEP Grids

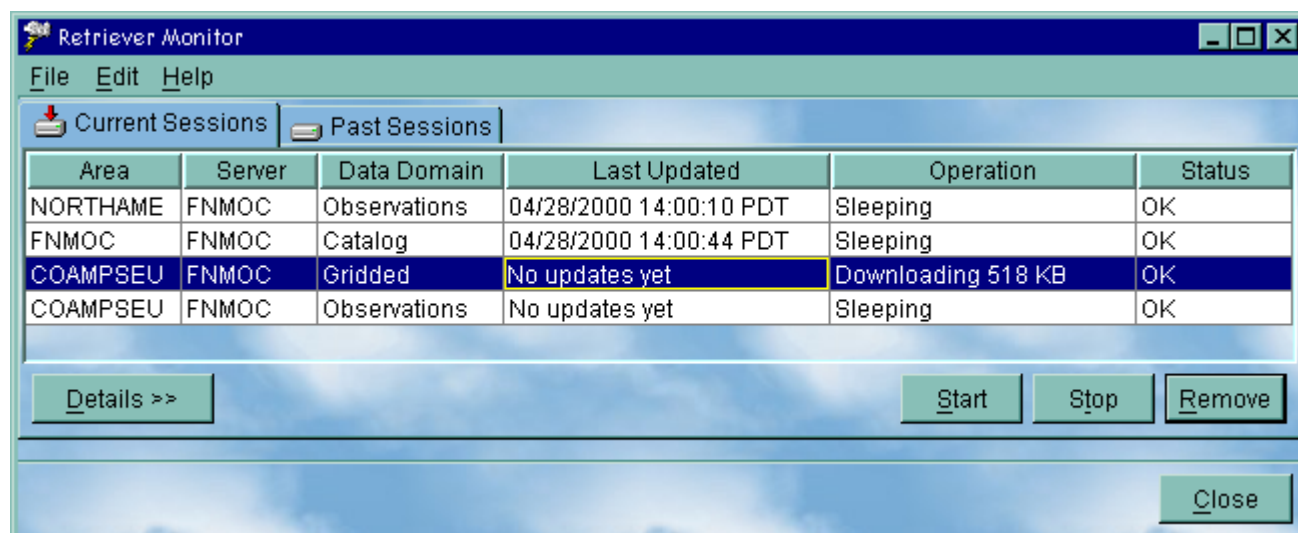


Figure B.6-15. Retriever Monitor Showing COAMPS Europe Area Retrieval in Progress

B.7 Test 7 Outputs

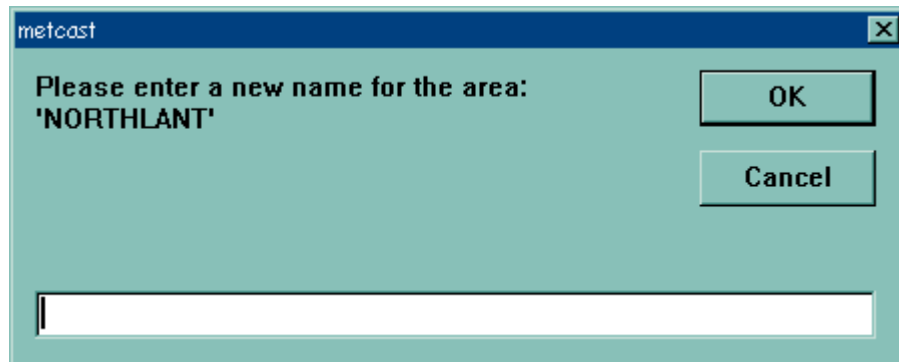


Figure B.7-1. Rename Area Dialog

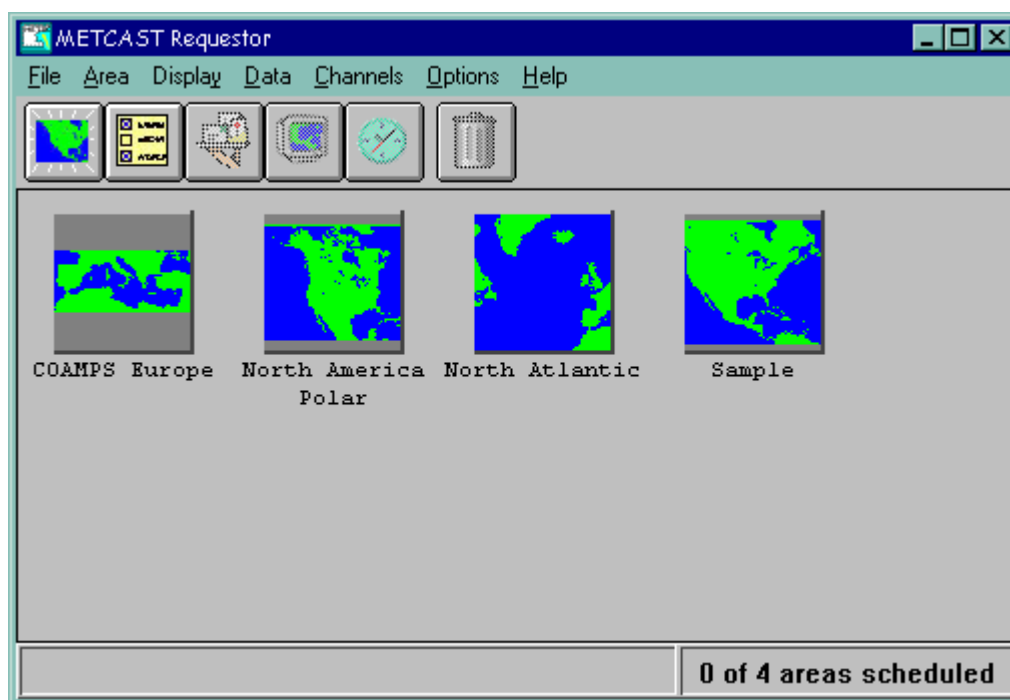


Figure B.7-2. METCAST Requestor With Renamed North Atlantic Area

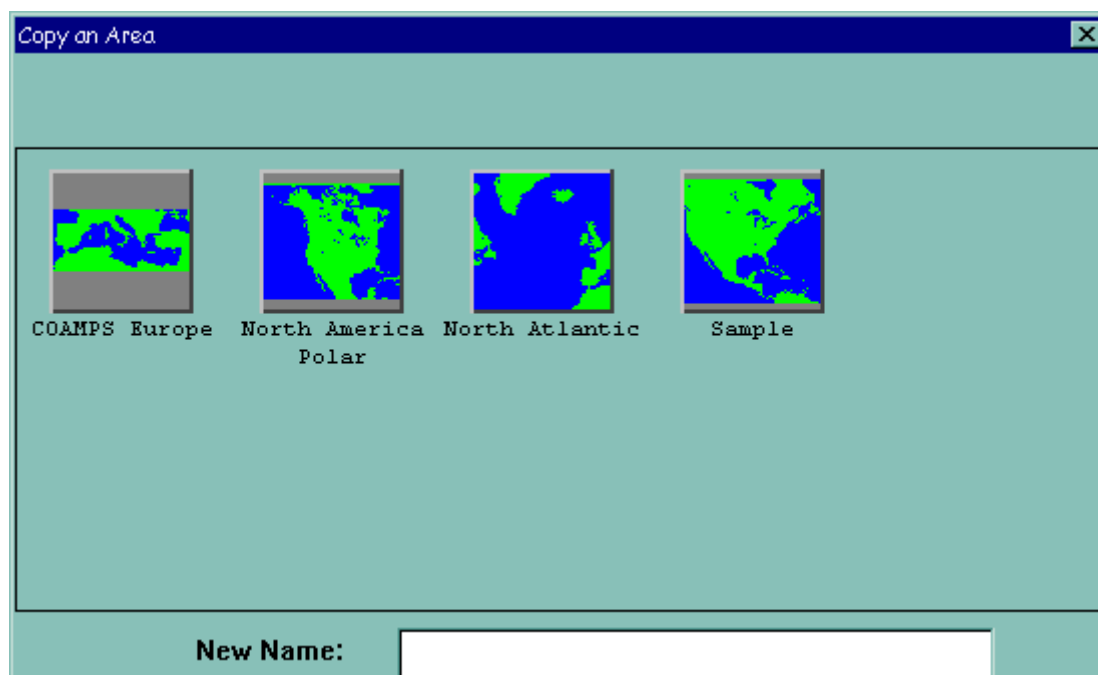


Figure B.7-3. Copy an Area Dialog

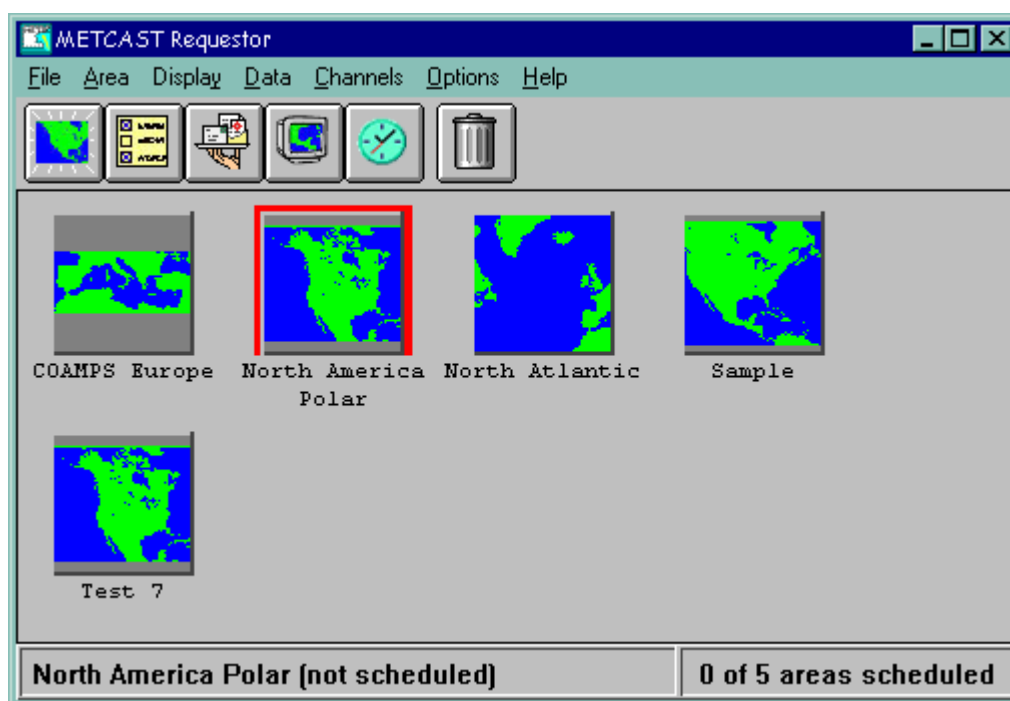


Figure B.7-4. METCAST Requestor With New Test 7 Area

B.8 Test 8 Output

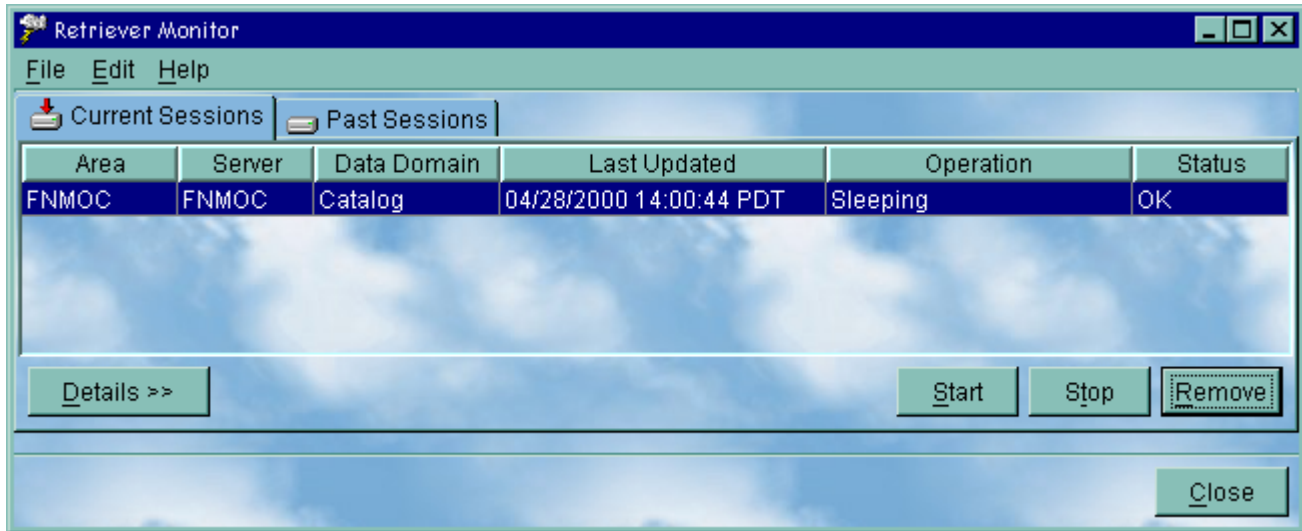


Figure B.8-1. Retriever Monitor Showing Status of Catalog Retrieval

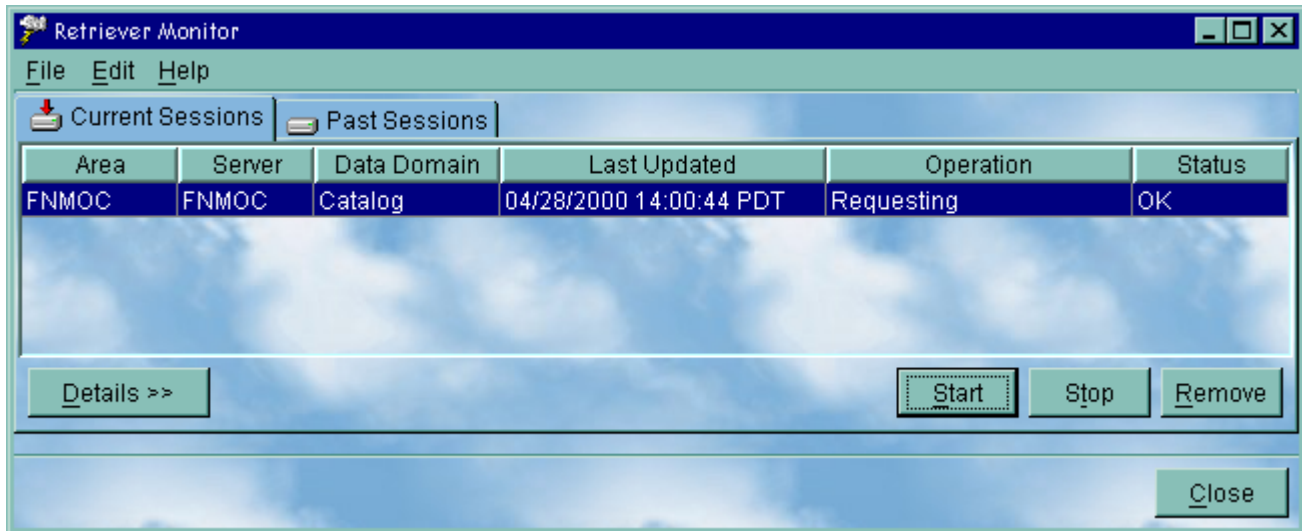


Figure B.8-2. Retriever Monitor After Starting a Sleeping Session

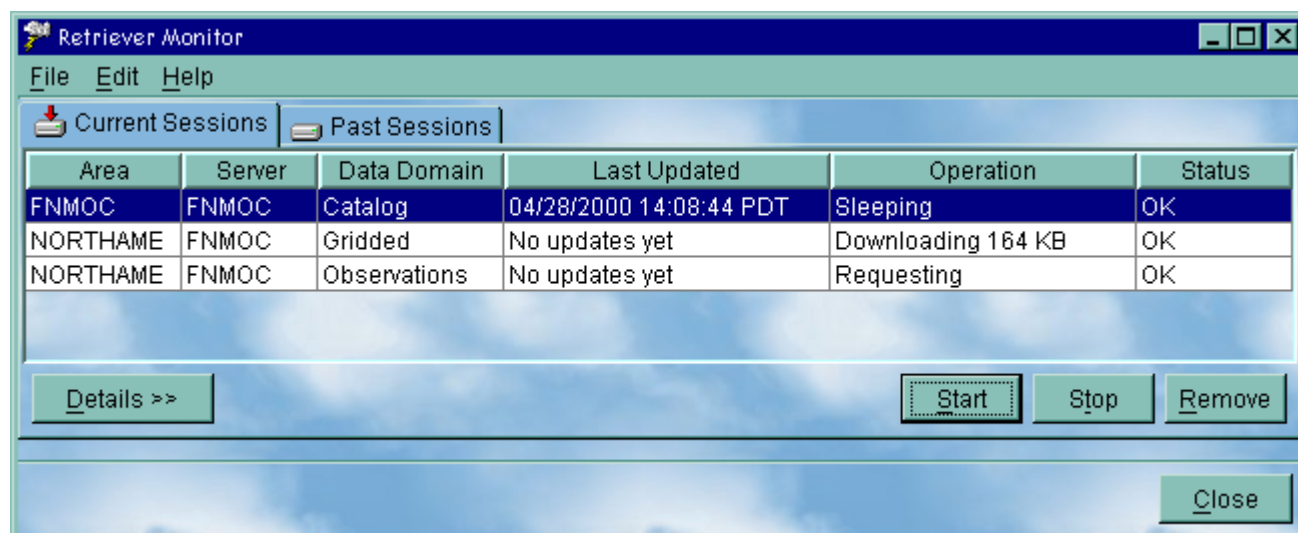


Figure B.8-3. Retriever Monitor Showing Retrievals In Progress

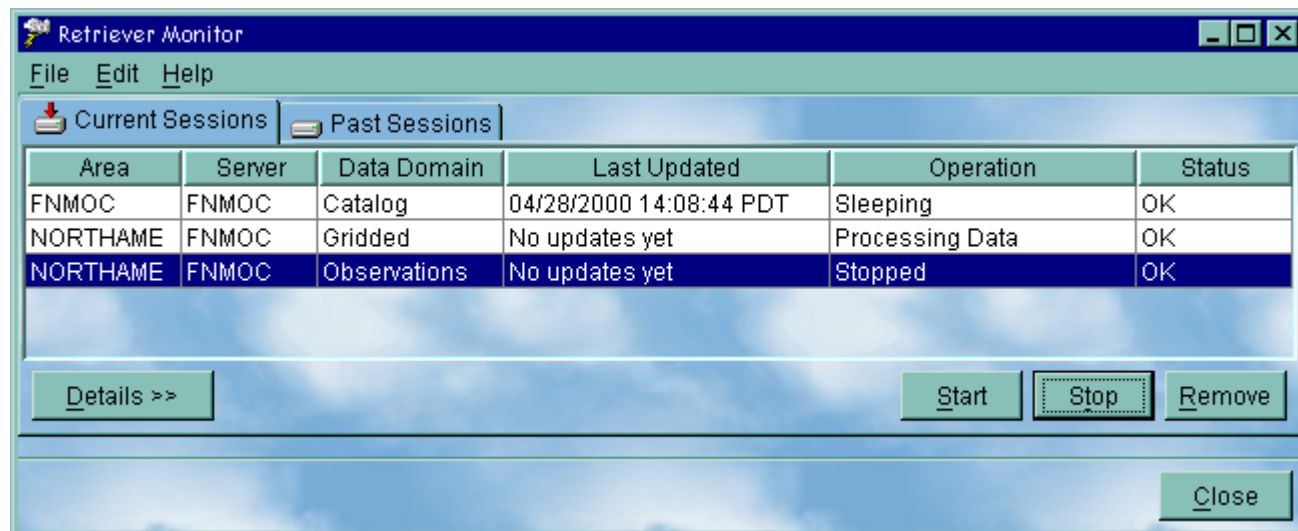


Figure B.8-4. Retriever Monitor Showing a Stopped Session

```

Info 9      14:09:37 PDT Retriever Now sleeping for 60 minutes.
Info 15     14:09:37 PDT Retriever Retrieval transaction worked properly.
Info 5      14:09:37 PDT Retriever Total download time is 31 seconds.
Info 4      14:09:37 PDT Retriever Total download size is 1 MB.
Info 4      14:09:37 PDT Retriever Downloaded product has 27 NINE attachments.
Info 4      14:09:35 PDT Retriever Procdata is removing old and intermediate files.
Info 4      14:09:19 PDT Retriever Procdata continues processing 27 GRIB files.
Info 3      14:09:17 PDT Retriever Finished downloading data product from Metcast server.
Info 28     14:09:16 PDT Retriever JUtil.moveFile(869165.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:16 PDT Retriever JUtil.moveFile(968286.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:16 PDT Retriever JUtil.moveFile(39020.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:15 PDT Retriever JUtil.moveFile(23221.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:15 PDT Retriever JUtil.moveFile(688981.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:15 PDT Retriever JUtil.moveFile(251310.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:15 PDT Retriever JUtil.moveFile(401009.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:15 PDT Retriever JUtil.moveFile(126784.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:15 PDT Retriever JUtil.moveFile(518874.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:12 PDT Retriever JUtil.moveFile(796332.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:12 PDT Retriever JUtil.moveFile(473607.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:11 PDT Retriever JUtil.moveFile(200058.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:11 PDT Retriever JUtil.moveFile(822339.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:11 PDT Retriever JUtil.moveFile(56840.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:11 PDT Retriever JUtil.moveFile(53558.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:11 PDT Retriever JUtil.moveFile(260498.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:11 PDT Retriever JUtil.moveFile(53101.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:11 PDT Retriever JUtil.moveFile(10977.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:09 PDT Retriever JUtil.moveFile(845843.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:09 PDT Retriever JUtil.moveFile(285222.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:09 PDT Retriever JUtil.moveFile(114983.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 7      14:09:09 PDT Retriever shell> procdata NORTHAME\gridded.con PROCGRIB LOG
Info 6      14:09:09 PDT Retriever Now performing following pre-operation for [application/x-grib ] entr
Info 28     14:09:09 PDT Retriever JUtil.moveFile(786240.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:09 PDT Retriever JUtil.moveFile(634146.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:09 PDT Retriever JUtil.moveFile(848893.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:09 PDT Retriever JUtil.moveFile(755407.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:08 PDT Retriever JUtil.moveFile(219842.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 28     14:09:08 PDT Retriever JUtil.moveFile(147409.tmp,NORTHAME\Temperature^NOGAPS^3^0^0^0^3^99%
Info 2      14:09:05 PDT Retriever Now Downloading data product from Metcast server.
Info 200    14:09:05 PDT Metcast Server HTTP Transaction OK. The resulting product follows
Info 1      14:09:00 PDT Retriever Connecting to host 152.80.52.100 on port 80.
Info 14     14:09:00 PDT Retriever Starting a Retrieval transaction.
  
```

Figure B.8-5. Notepad Showing Retriever Monitor Log

B.9 Test 9 Output

None

B.10 Test 10 Output

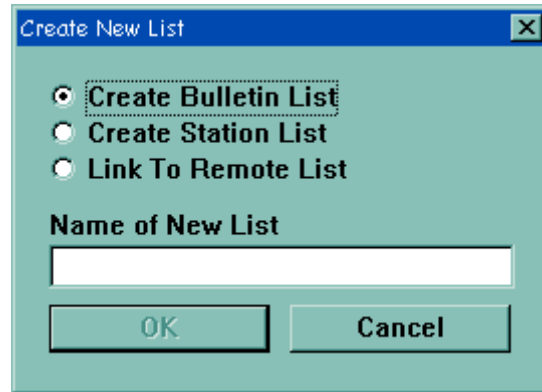


Figure B.10-1. Create New List Dialog

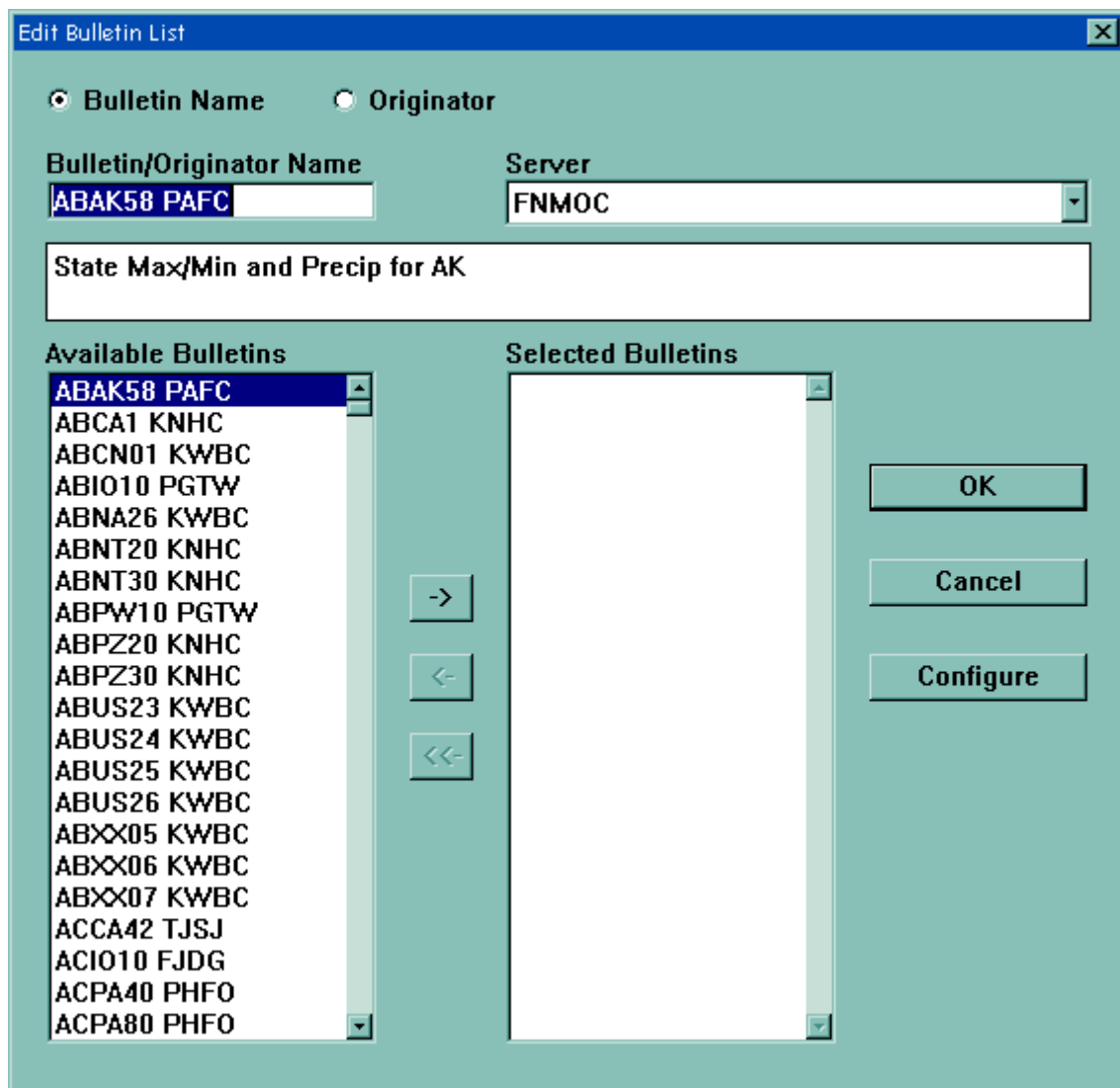


Figure B.10-2. Edit Bulletin List Dialog

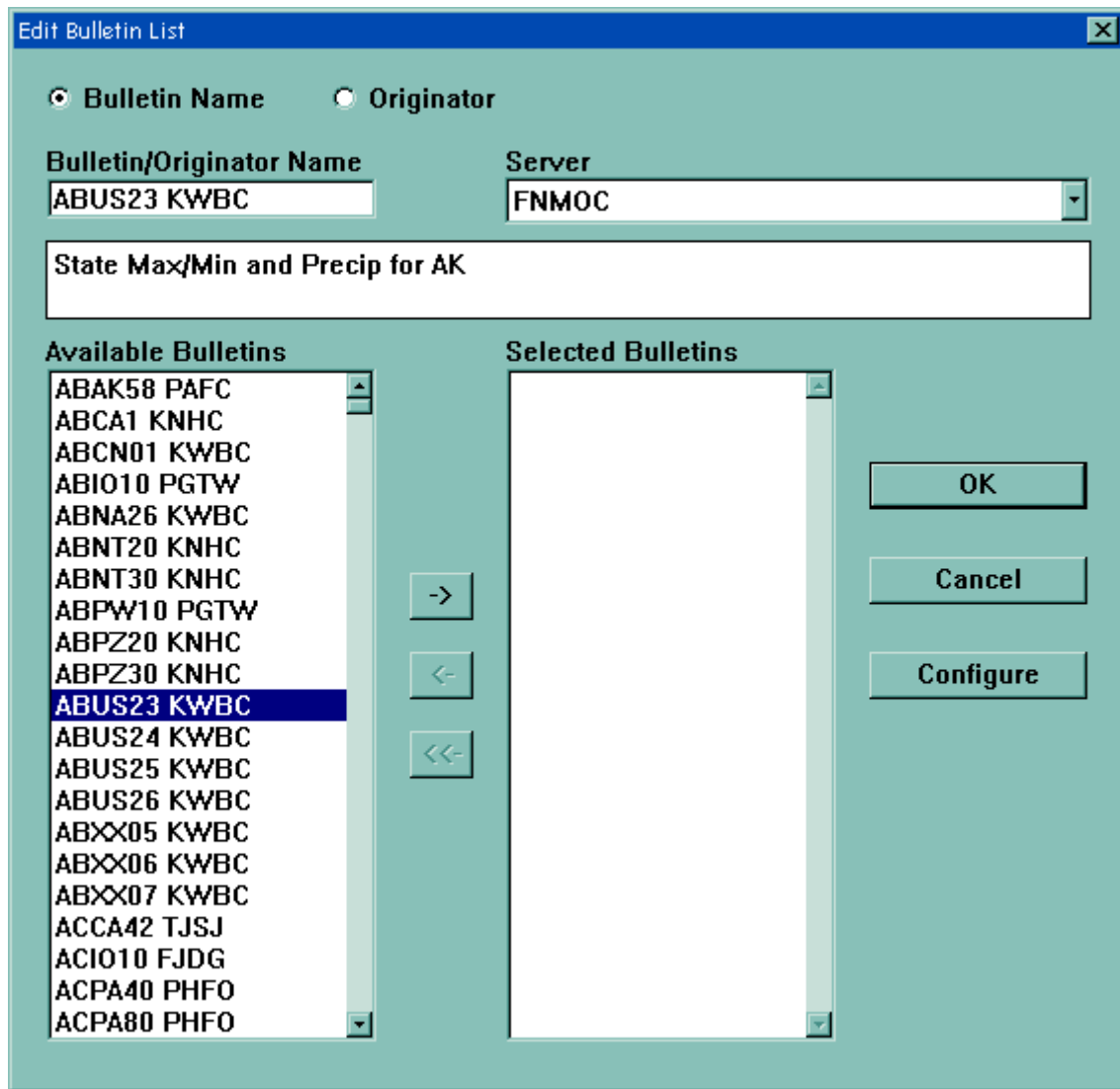


Figure B.10-3. Edit Bulletin List Dialog With First ABUS Entry Highlighted

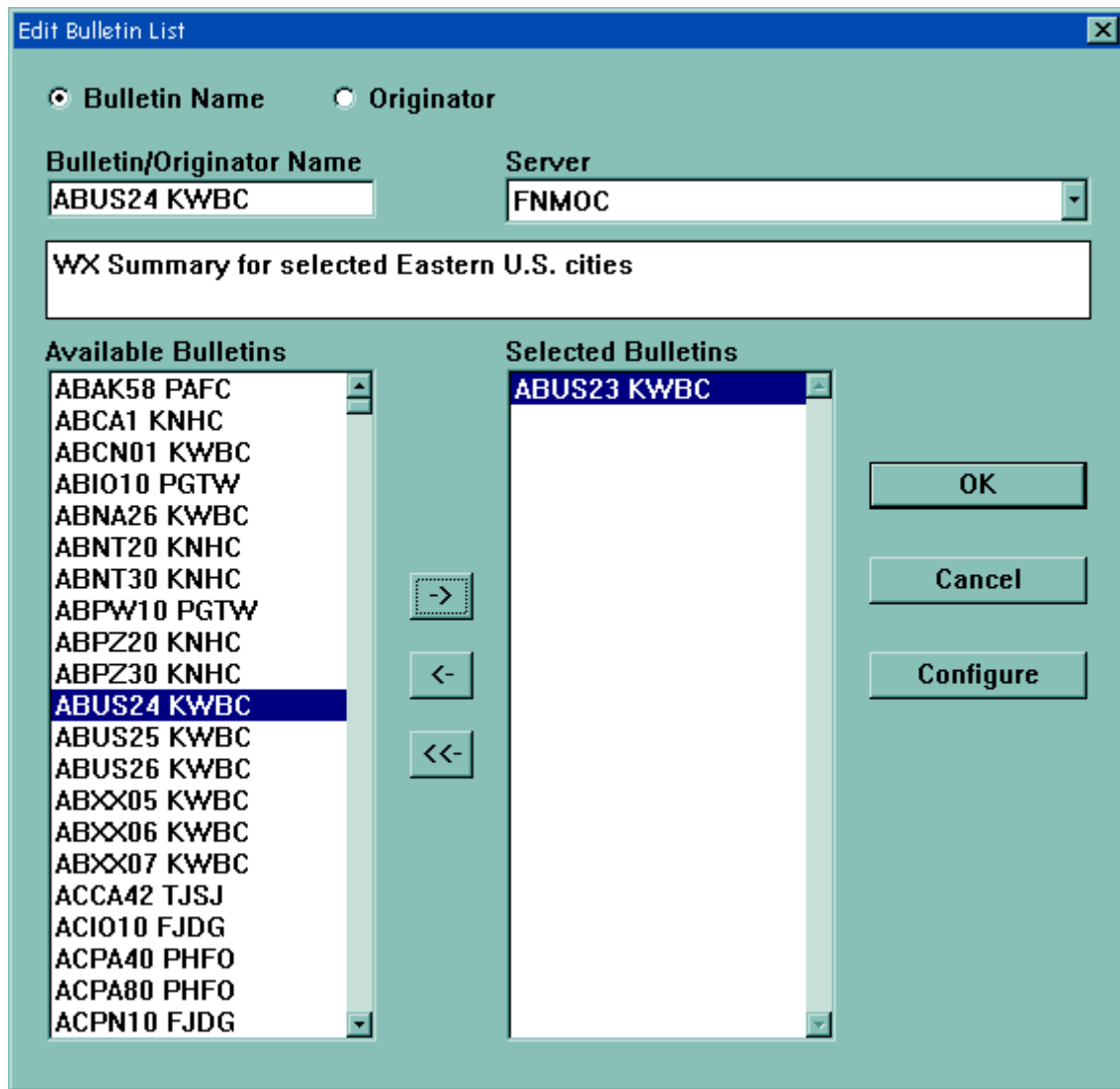


Figure B.10-4. Edit Bulletin List Dialog With First ABUS Entry Selected

Edit Bulletin List

☐ Bulletin Name
 ☒ **Originator**

Bulletin/Originator Name
 ABUS24 KWBC

Server
 FNMOC

WX Summary for selected Eastern U.S. cities

Available Bulletins

- SEAU1 AAAD
- WOAU ABBN
- WTAU ABBN
- ARAU40 ABRF
- AXAU21 ABRF
- FQAU20 ABRF
- WCAU01 ABRF
- WHAU01 ABRF
- WHAU02 ABRF
- WOAU01 ABRF
- WOAU02 ABRF
- WTAU01 ABRF
- WTAU02 ABRF
- WTAU03 ABRF
- WTAU04 ABRF
- WWAU01 ABRF
- WWAU21 ABRF
- WWAU24 ABRF
- WWPS22 ABRF
- WWS021 ABRF
- FPAU ADDN

->

<-

<<-

Selected Bulletins

- ABUS23 KWBC

Figure B.10-5. Edit Bulletin List With Originator Button Selected

Edit Bulletin List

☐ Bulletin Name
 ☒ Originator

Bulletin/Originator Name:
 Server:

WX Summary for selected Eastern U.S. cities

Available Bulletins	Selected Bulletins
FPUS65 KVEF	ABUS23 KWBC
FPUS75 KVEF	
FPUS85 KVEF	
FSUS45 KVEF	
FXUS65 KVEF	
SDUS85 KVEF	
SXUS45 KVEF	
SXUS75 KVEF	
SXUS85 KVEF	
WFUS55 KVEF	
WGUS45 KVEF	
WGUS55 KVEF	
WGUS65 KVEF	
WGUS75 KVEF	
WGUS85 KVEF	
WUUS55 KVEF	
WWUS55 KVEF	
WWUS65 KVEF	
WWUS75 KVEF	
WWUS85 KVEF	
ABCN01 KWBC	

Figure B.10-6. Edit Bulletin List With First KWBC Entry Highlighted

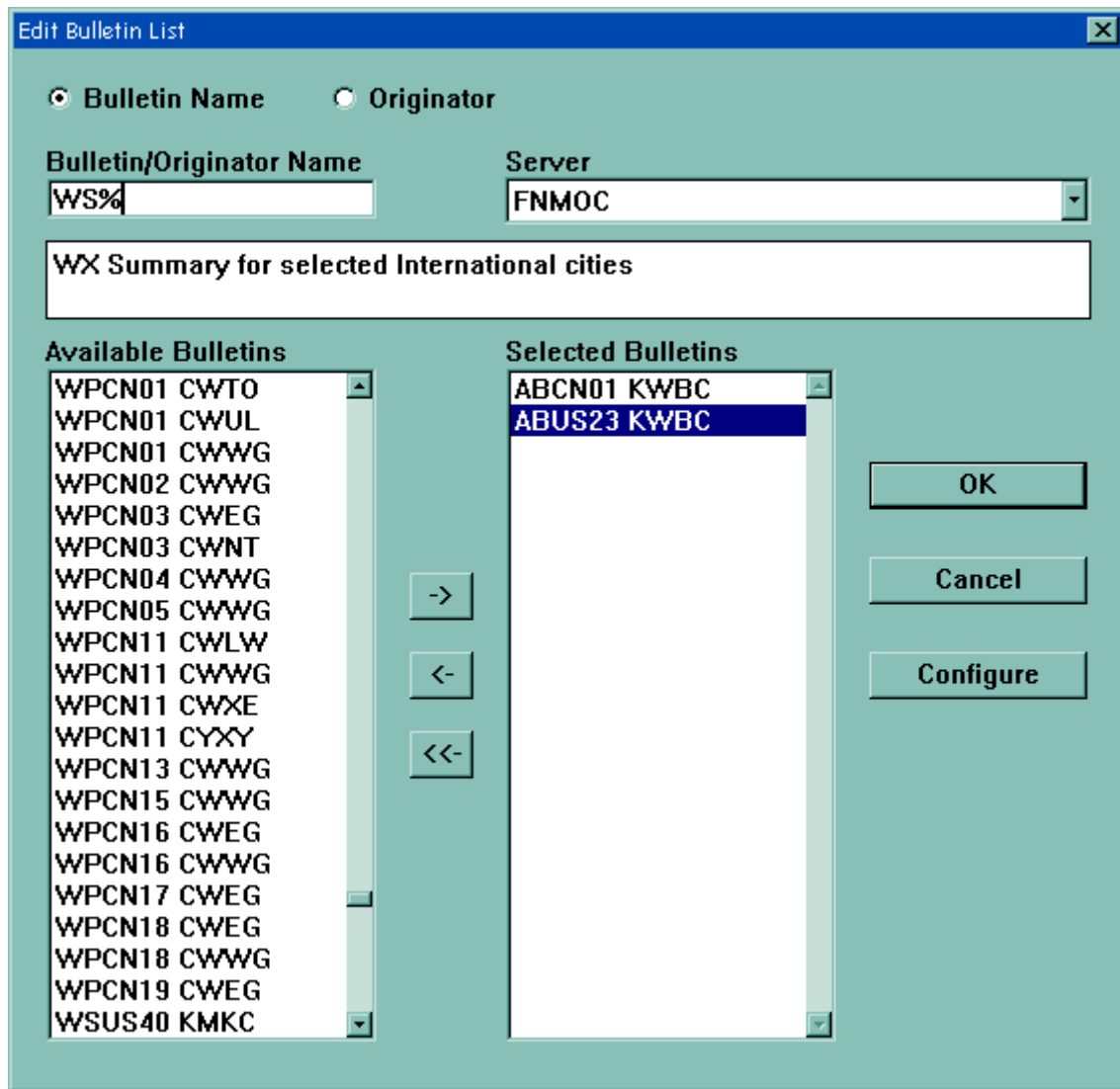


Figure B.10-7. Edit Bulletin List Dialog With Wild Card Selection

Edit Bulletin List

☒ **Bulletin Name**
☐ **Originator**

Bulletin/Originator Name
Server

WX Summary for selected International cities

Available Bulletins

- WPCN01 CWTO
- WPCN01 CWUL
- WPCN01 CWWG
- WPCN02 CWWG
- WPCN03 CWEG
- WPCN03 CWNT
- WPCN04 CWWG
- WPCN05 CWWG
- WPCN11 CWLW
- WPCN11 CWWG
- WPCN11 CWXE
- WPCN11 CYXY
- WPCN13 CWWG
- WPCN15 CWWG
- WPCN16 CWEG
- WPCN16 CWWG
- WPCN17 CWEG
- WPCN18 CWEG
- WPCN18 CWWG
- WPCN19 CWEG
- WSUS40 KMKC

Selected Bulletins

- ABCN01 KWBC
- ABUS23 KWBC
- WS%**

>

<

<<

OK

Cancel

Configure

Figure B.10-8. Edit Bulletin List With Wild Card Entry Selected

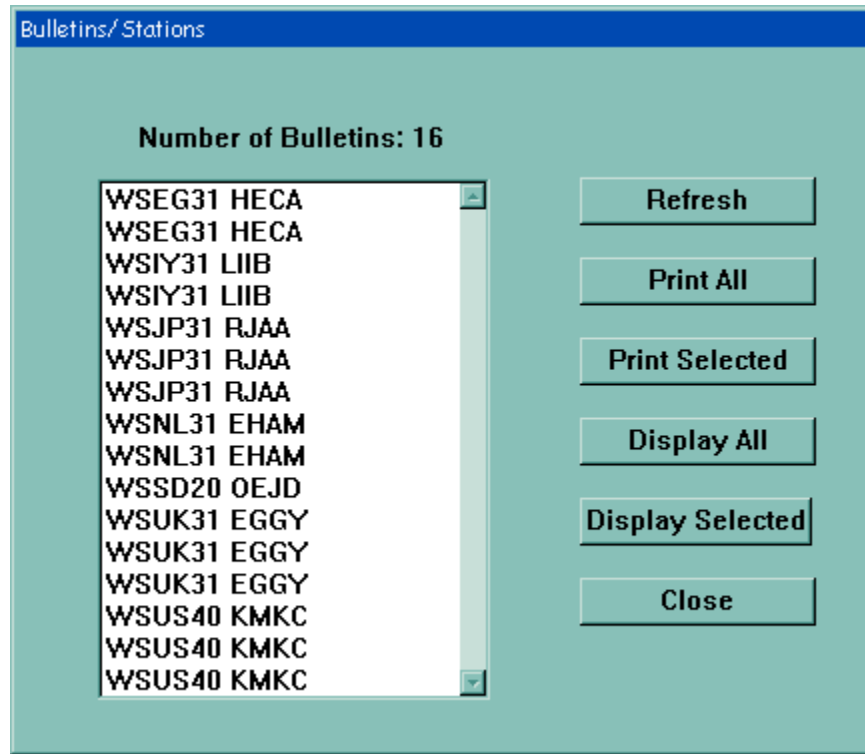


Figure B.10-9. Bulletins/Stations Dialog Showing Downloaded Bulletins

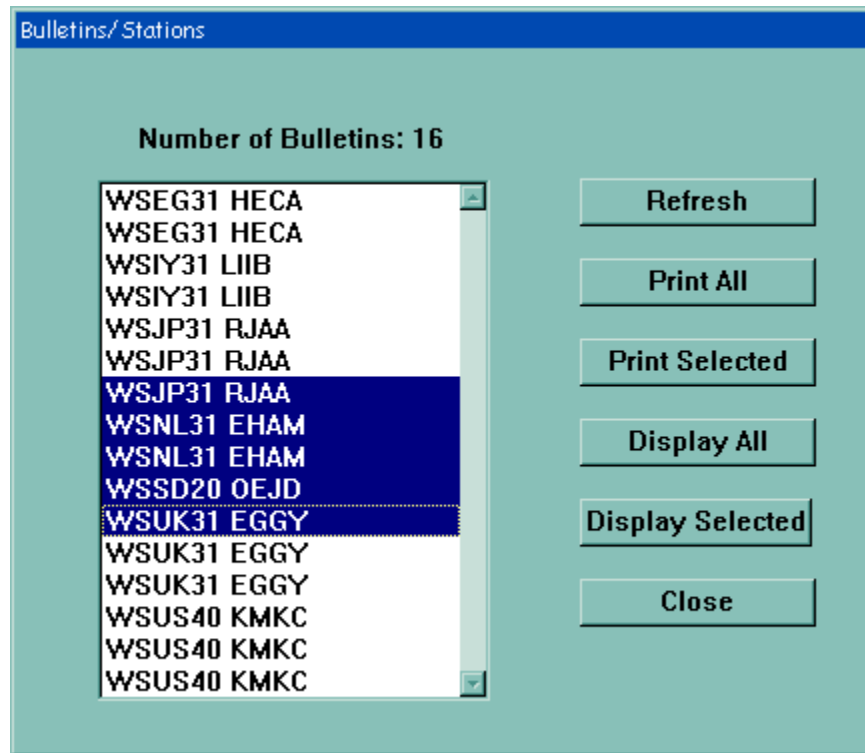


Figure B.10-10. Bulletins/Stations Dialog With Range of Bulletin Names Selected

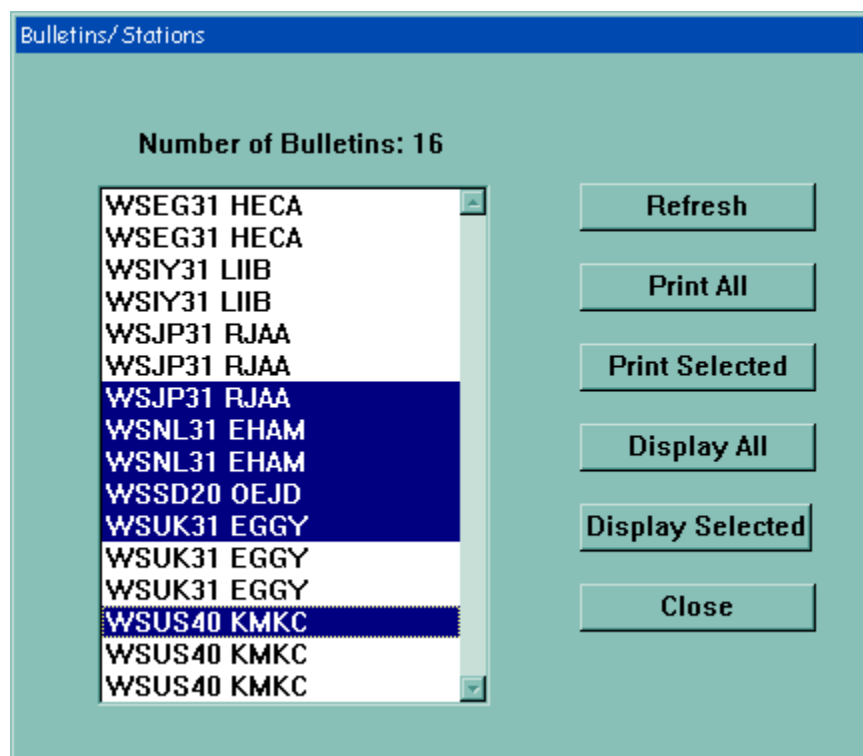


Figure B.10-11. Bulletins/Stations Dialog With Discontinuous Names Selected

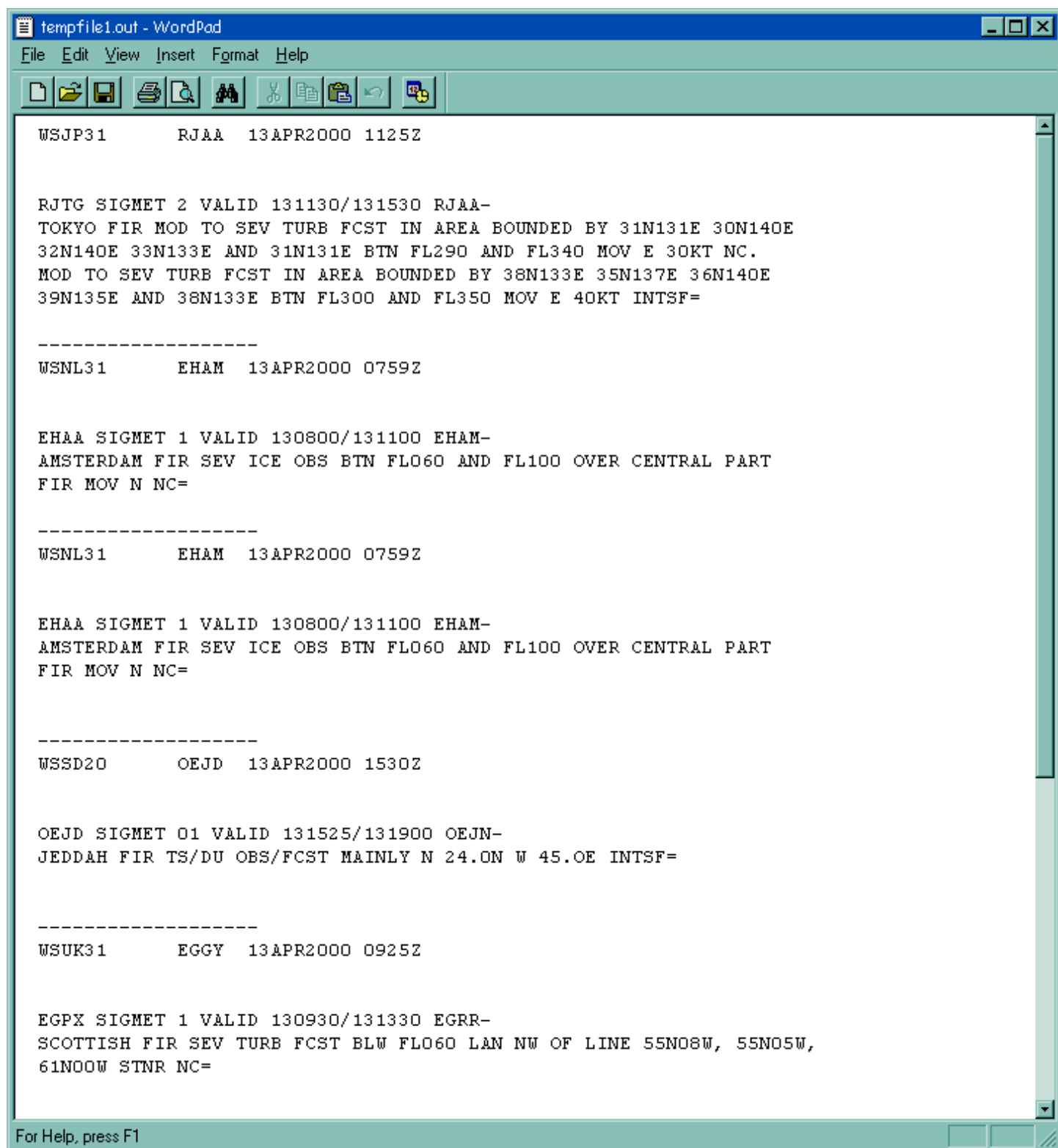


Figure B.10-12. Bulletins Displayed in Text Editor

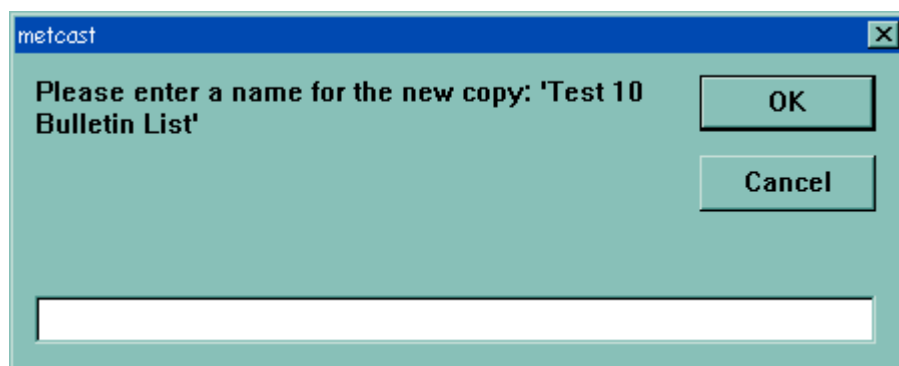


Figure B.10-13. Duplicate List Dialog

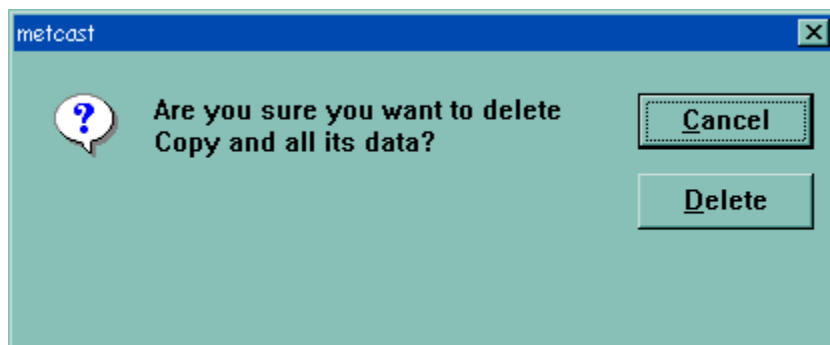


Figure B.10-14. Delete List Dialog

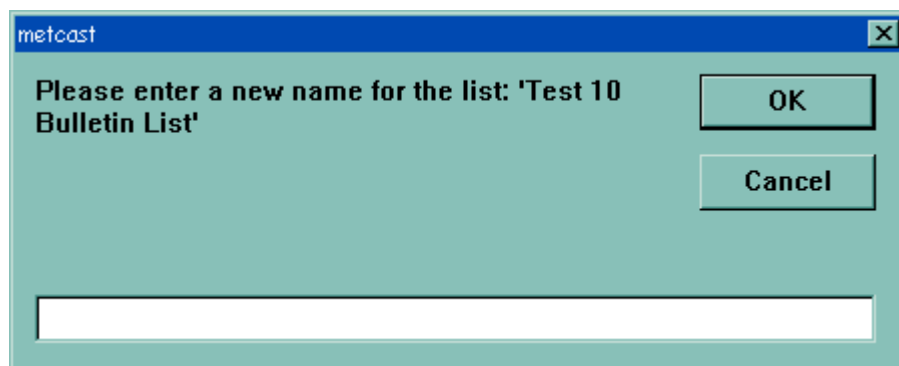


Figure B.10-15. Rename List Dialog

B.11 Test 11 Output

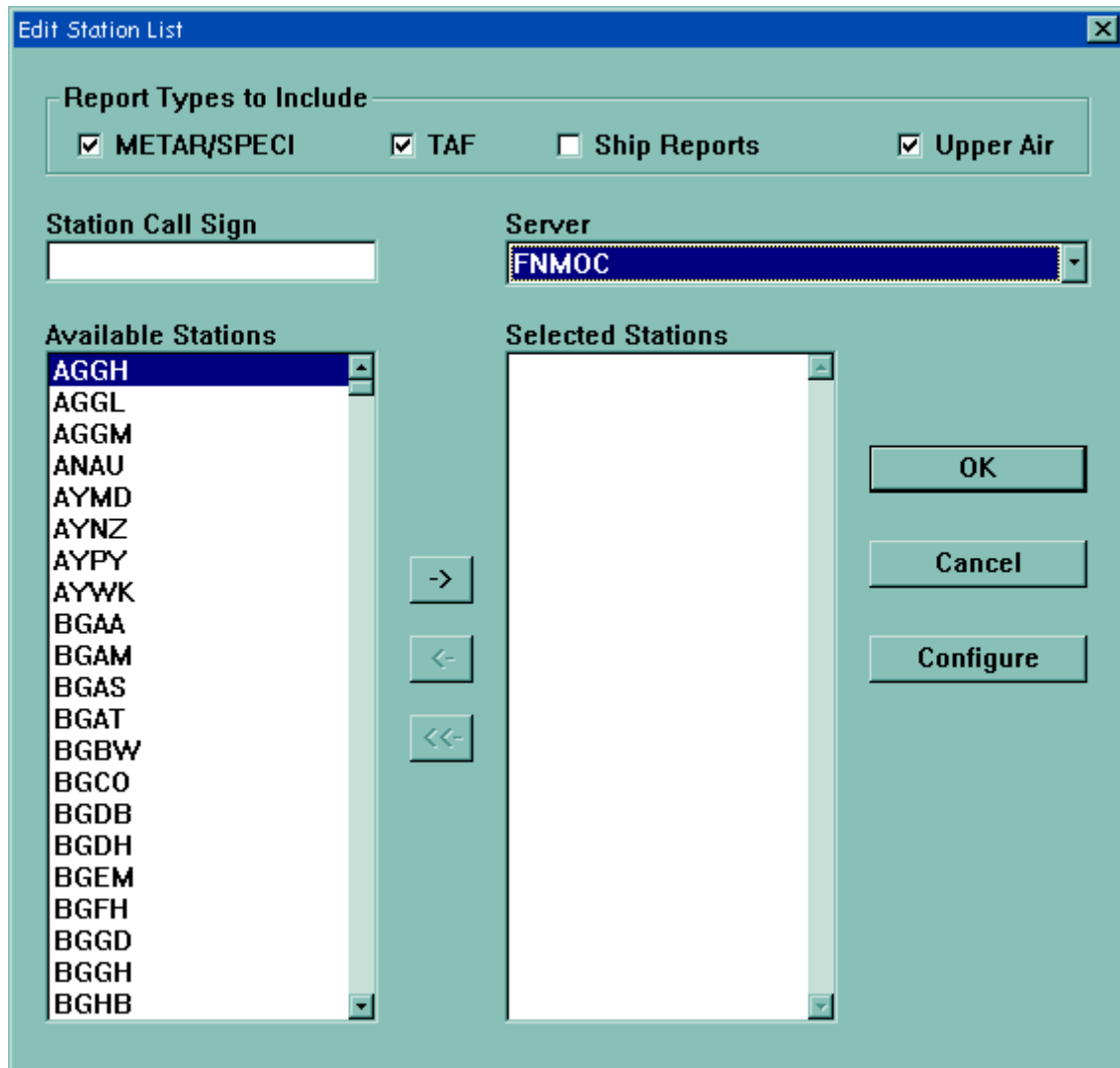


Figure B.11-1. Edit Station List Dialog

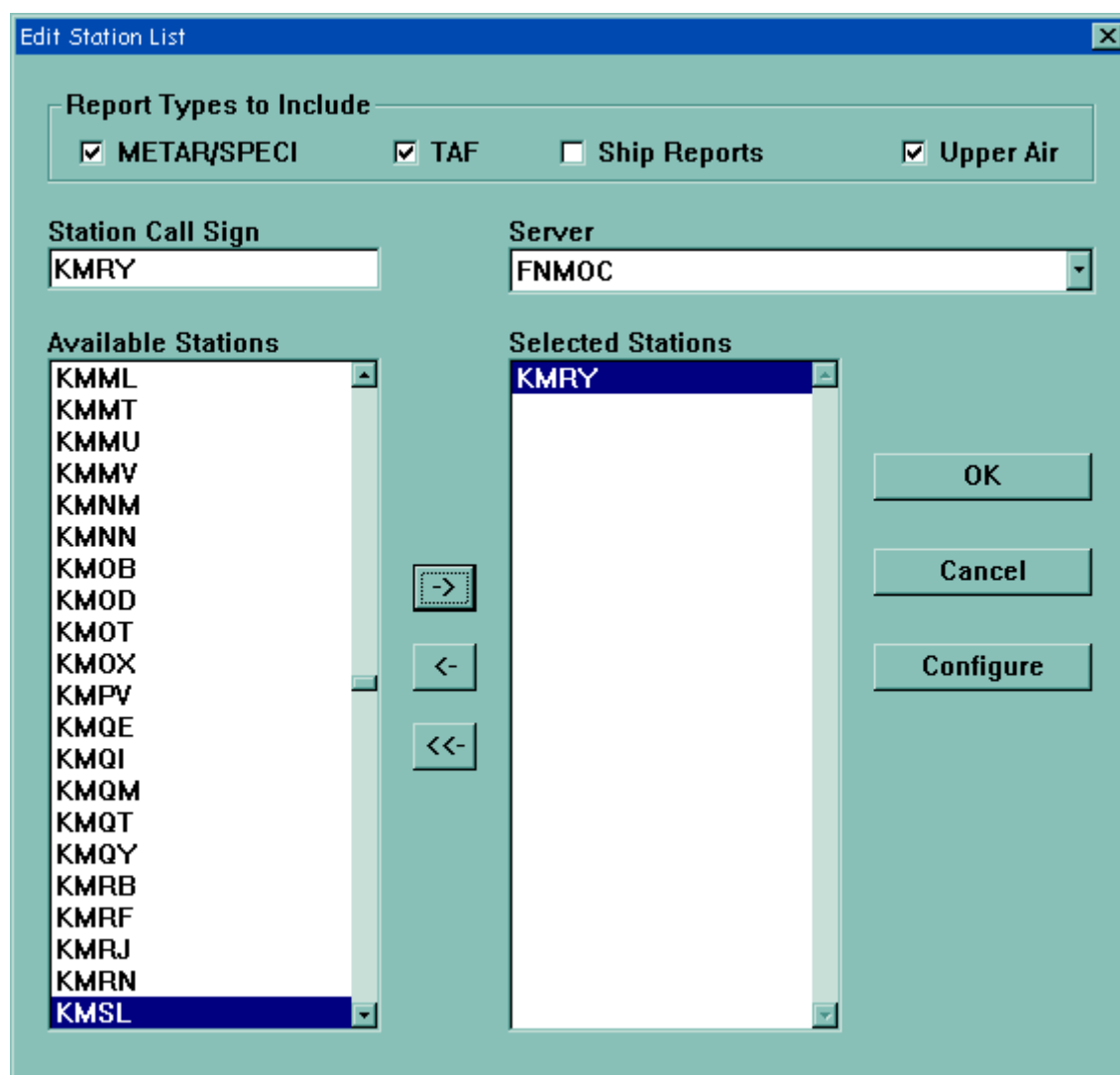


Figure B.11-2. Edit Station List Dialog With Station KMRY Selected

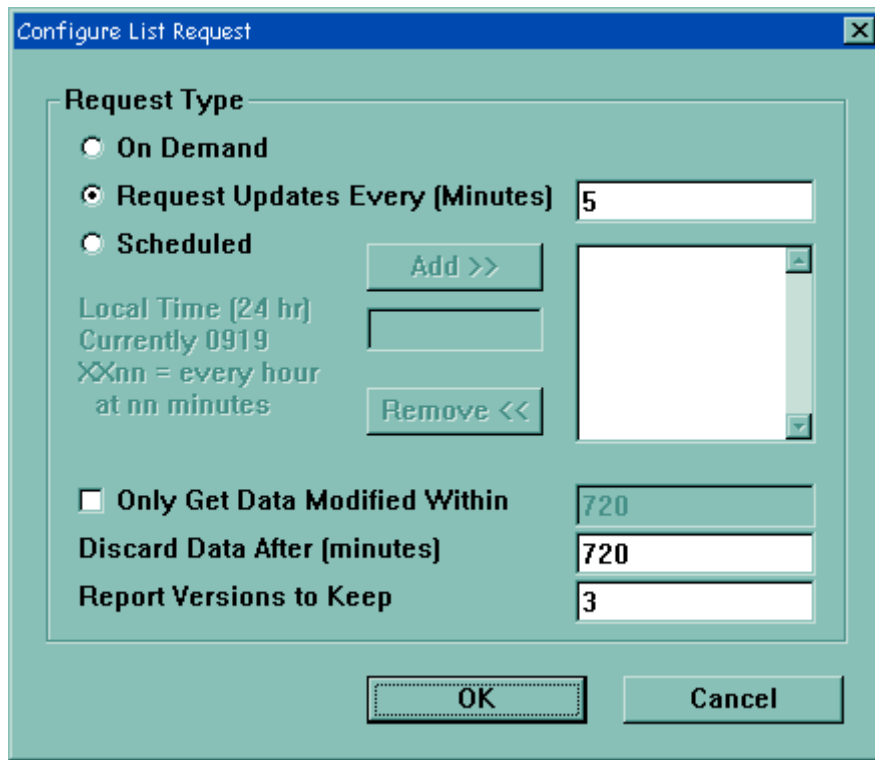


Figure B.11-3. Configure List Request Dialog Showing Defaults

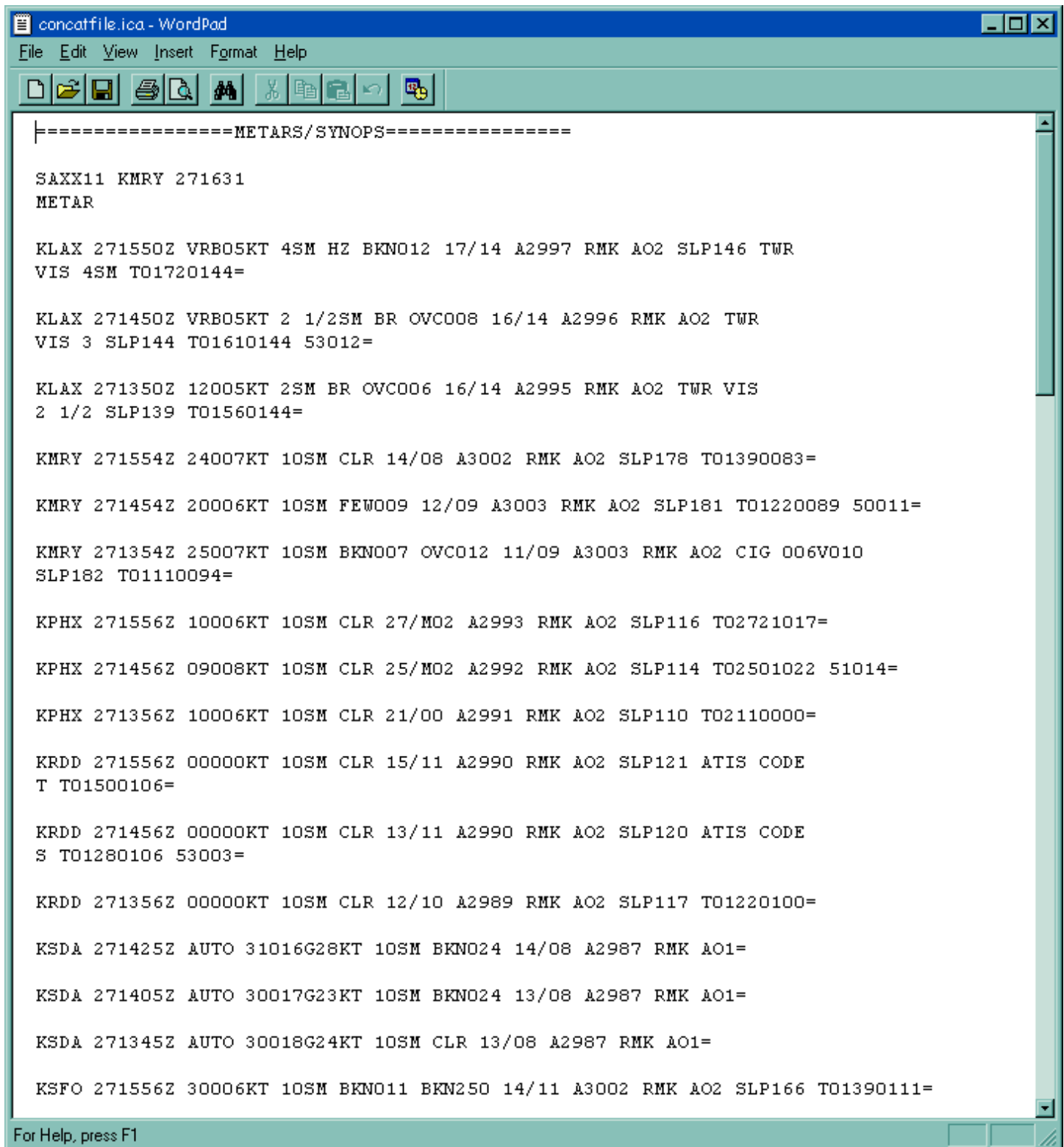


Figure B.11-4. Station List Display

B.12 Test 12 Output

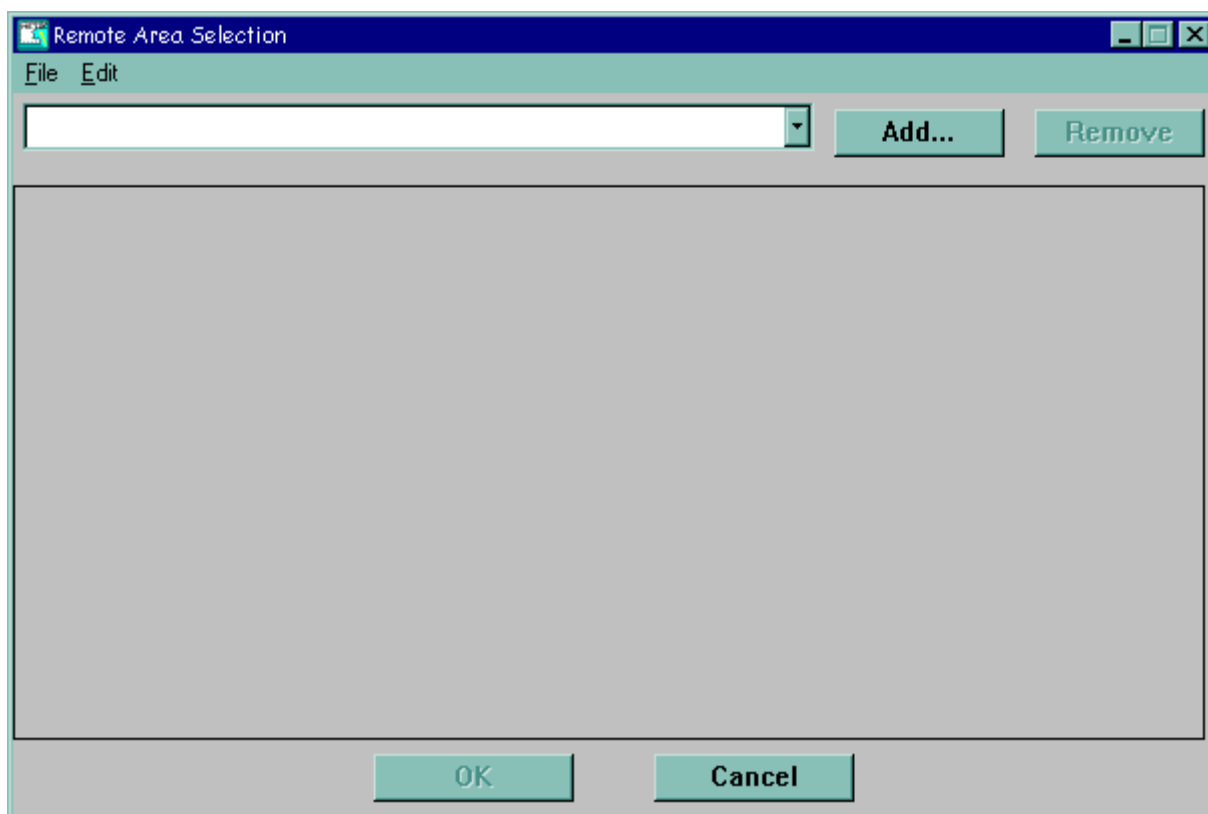


Figure B.12-1. Remote Area Selection Dialog

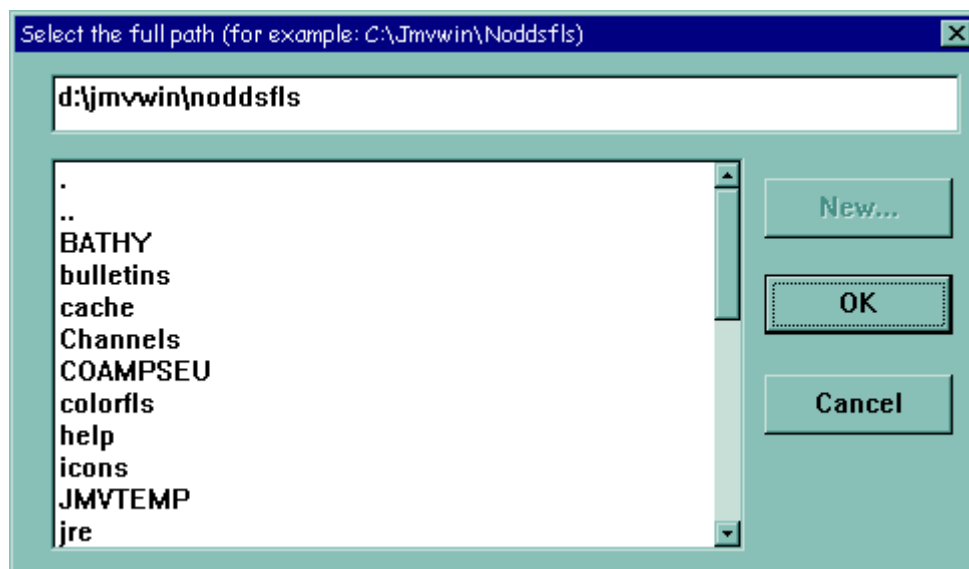


Figure B.12-2. Select Full Path Dialog

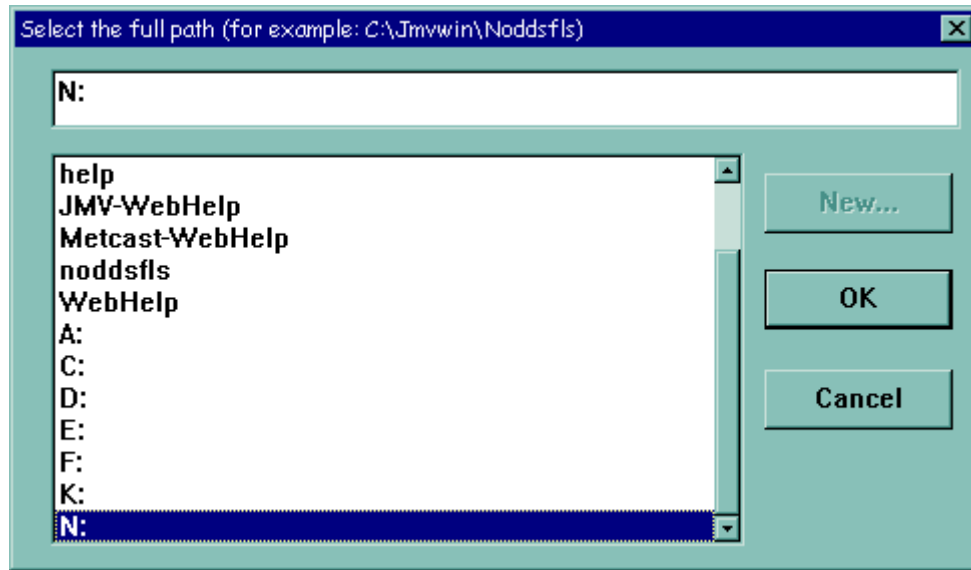


Figure B.12-3. Select Full Path Dialog With Mapped Drive Selected

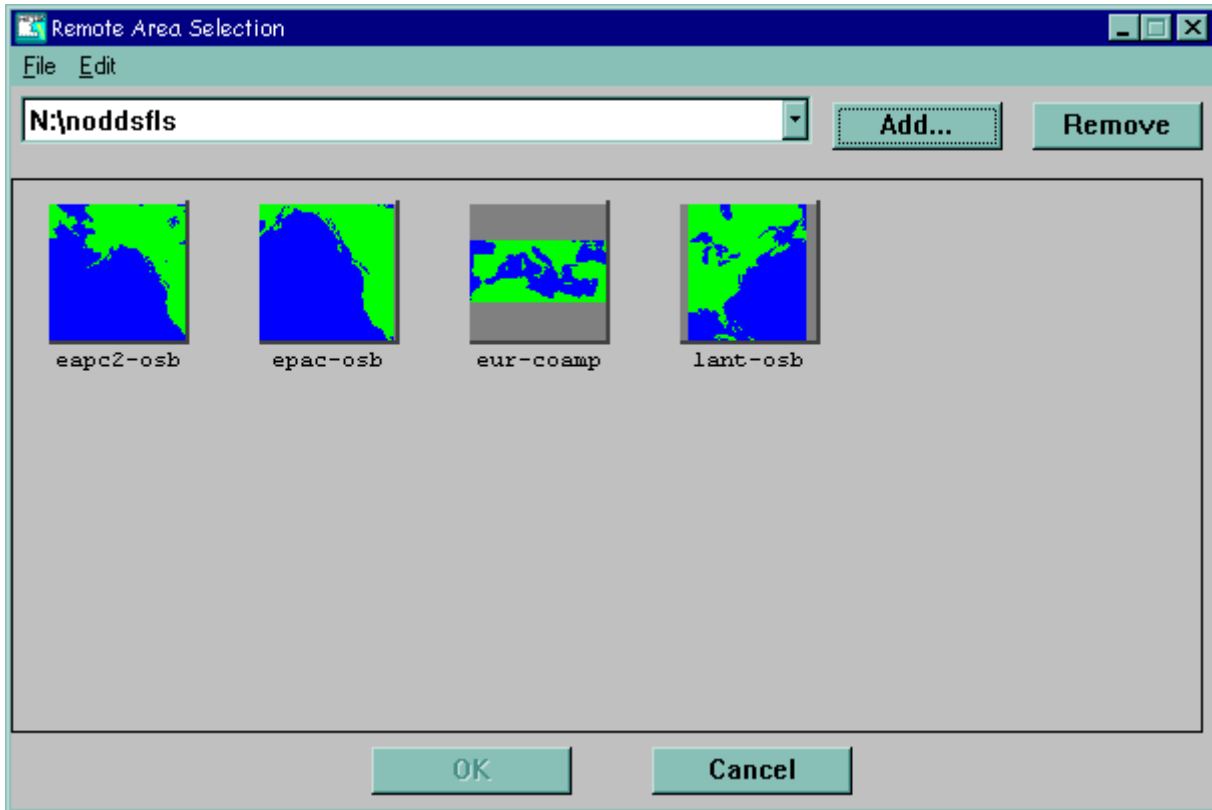


Figure B.12-4. Remote Area Selection Dialog Showing Areas Available on Remote Machine

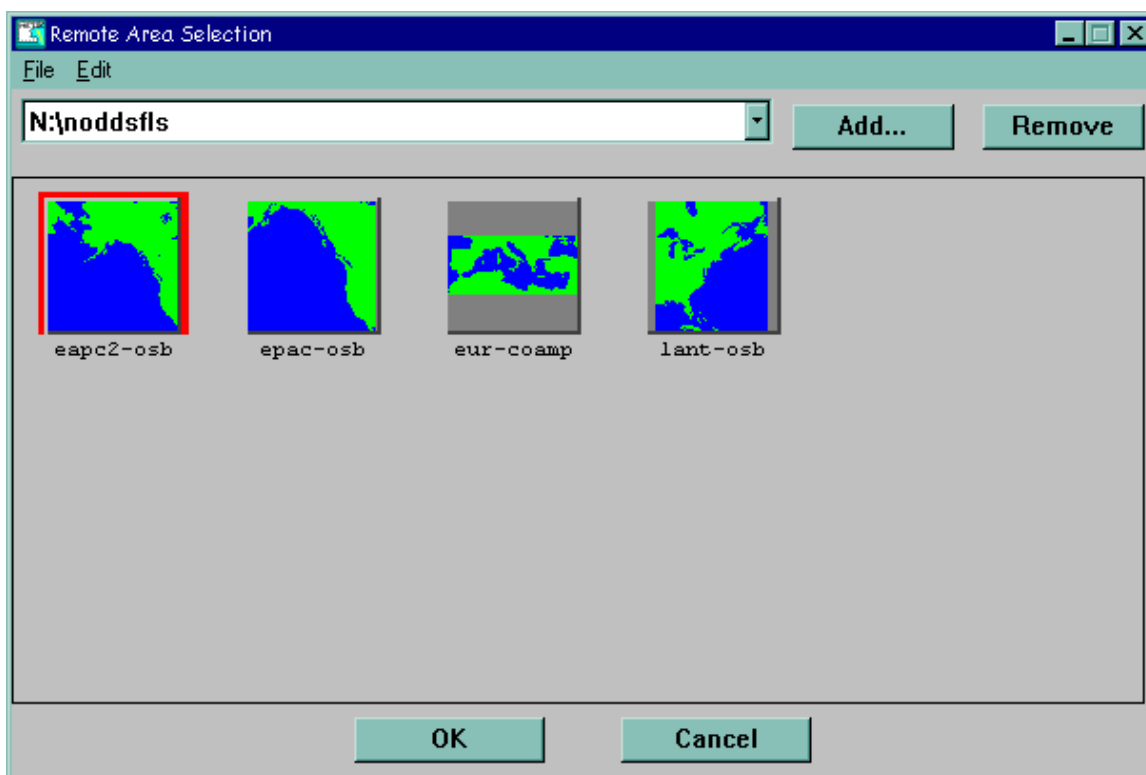


Figure B.12-5. Remote Area Selection Dialog With One Area Selected

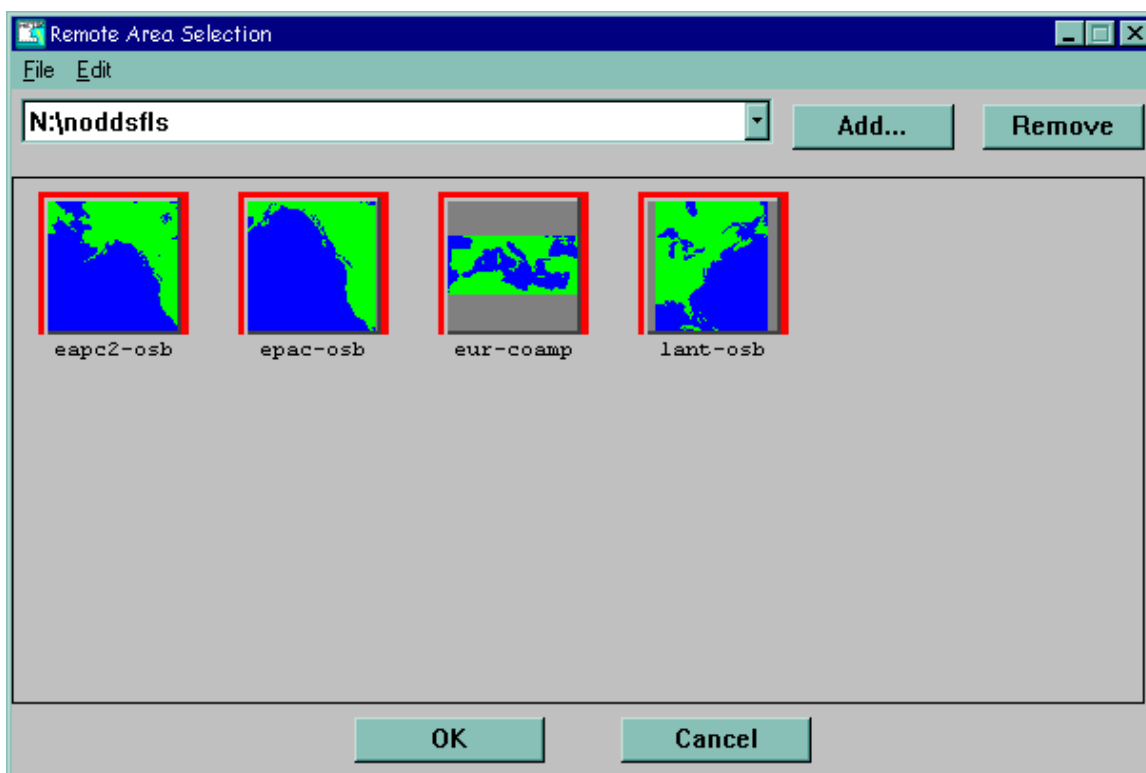


Figure B.12-6. Remote Area Selection Dialog With All Areas Selected

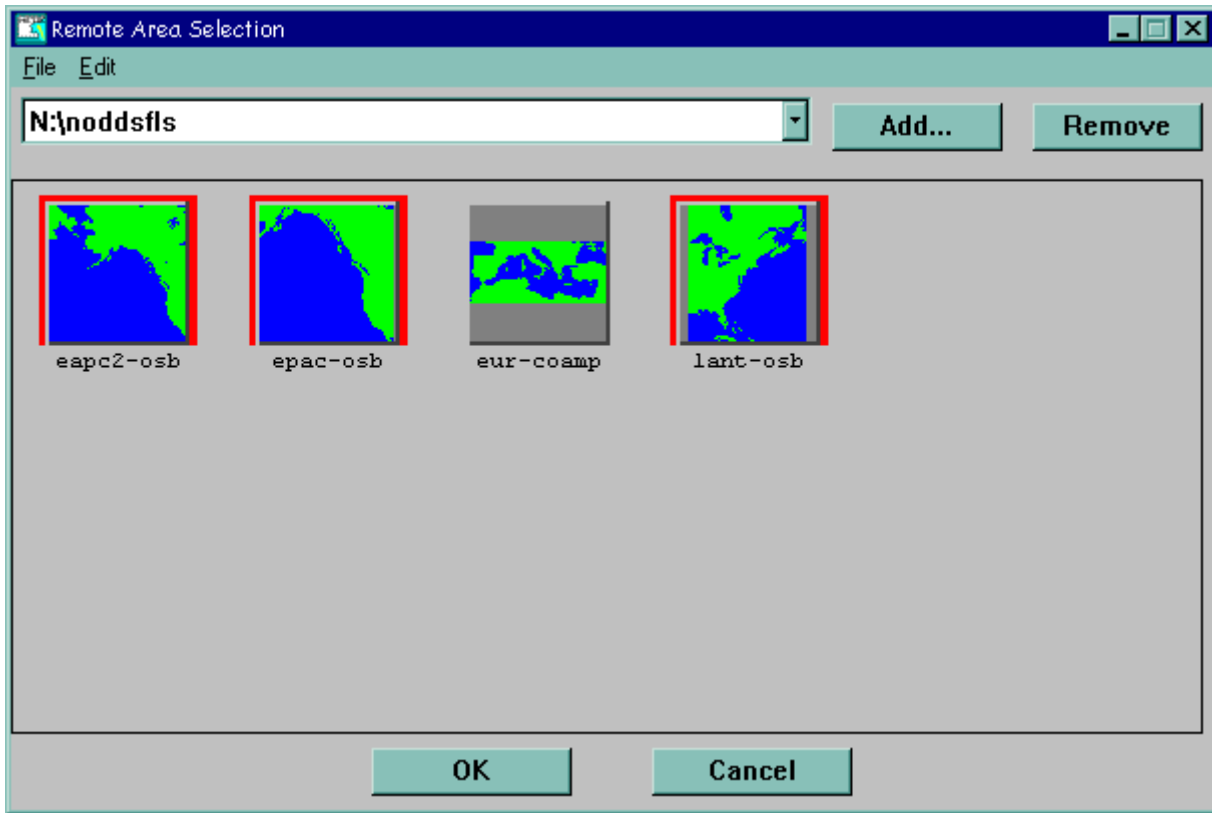


Figure B.12-7. Remote Area Selection Dialog With One Area Deselected

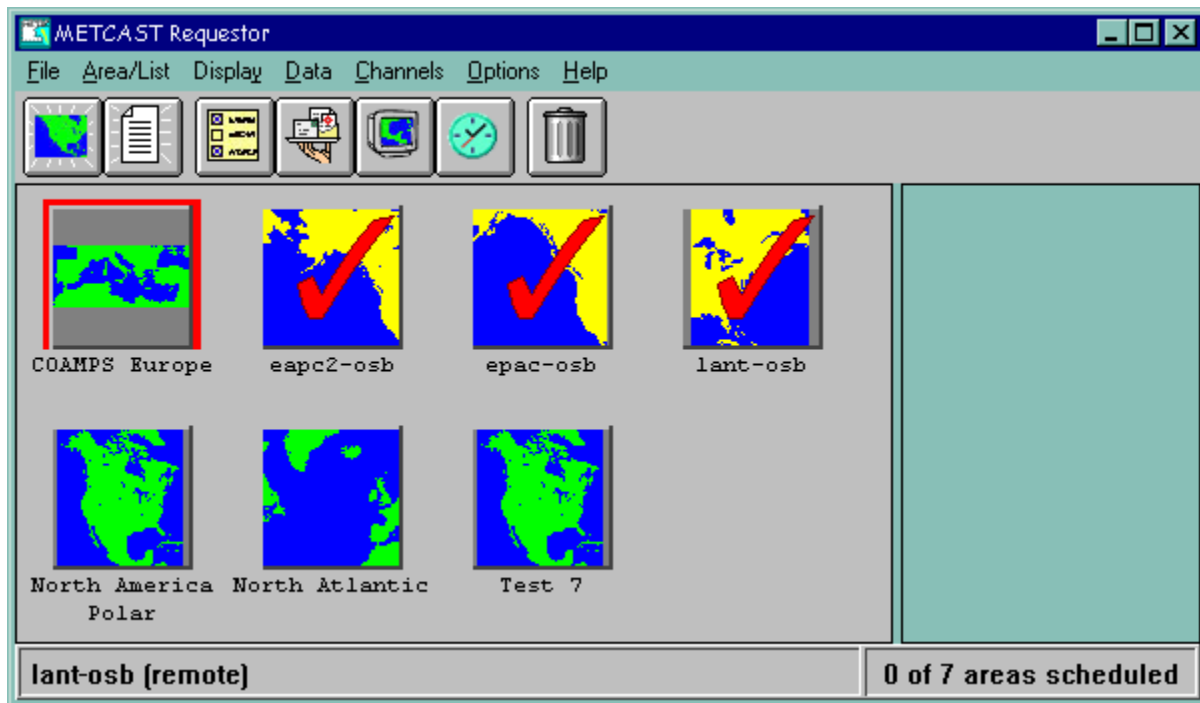


Figure B.12-8. METCAST Requestor Showing Remote Areas

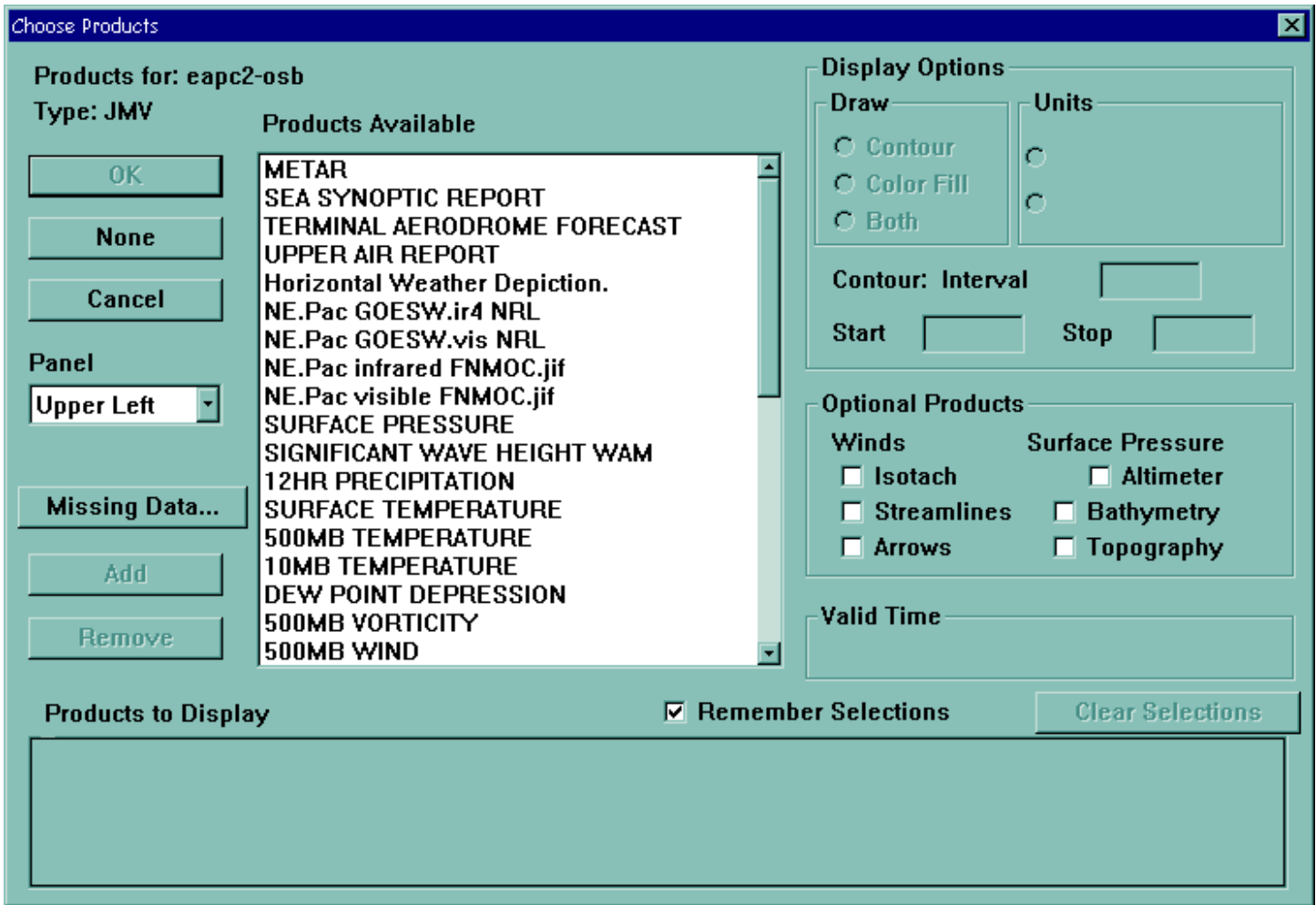


Figure B.12-9. JMV Choose Products Dialog for a Remote Area

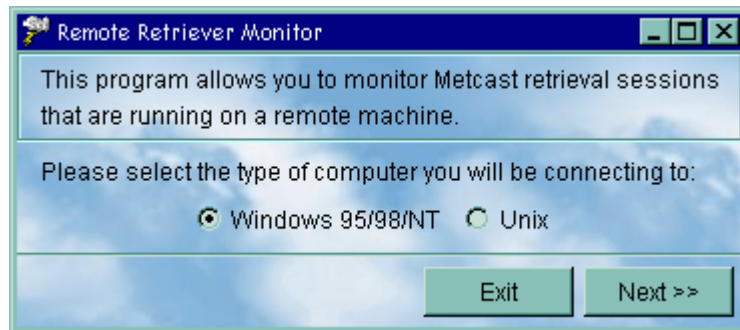


Figure B.12-10. Remote Retriever Monitor Startup Dialog

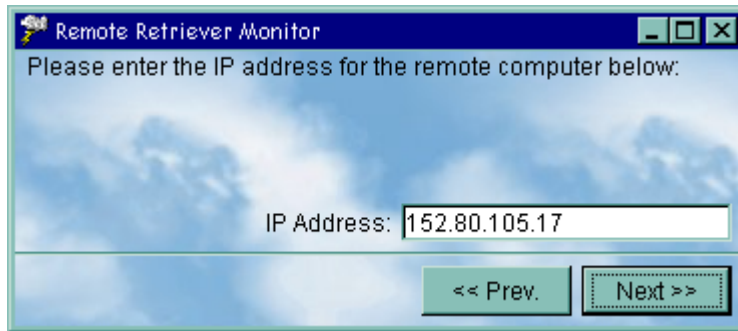


Figure B.12-11. Remote Retriever Monitor IP Address Dialog

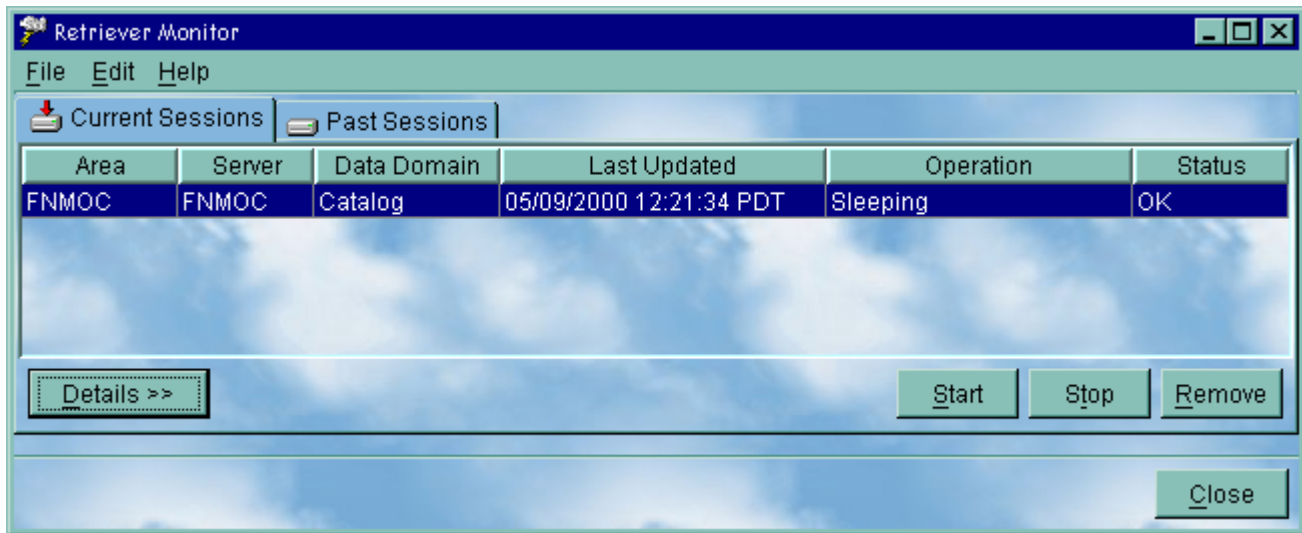


Figure B.12-12. Remote Retriever Monitor

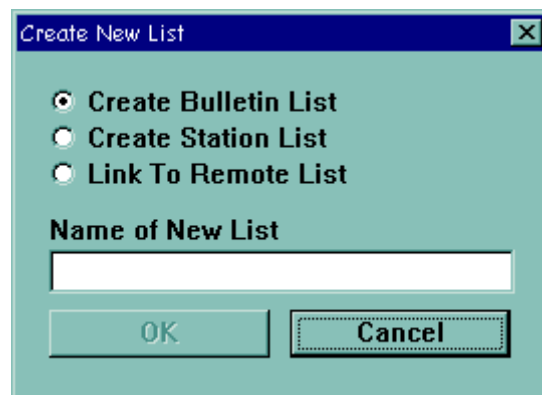


Figure B.12-13. Create New List Dialog

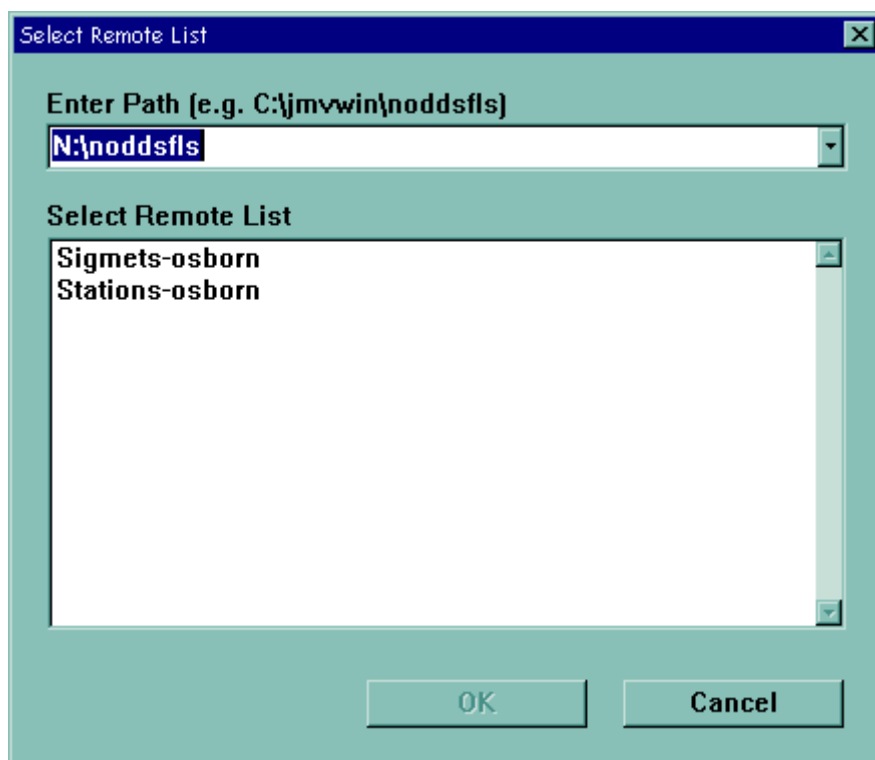


Figure B.12-14. Select Remote List Dialog

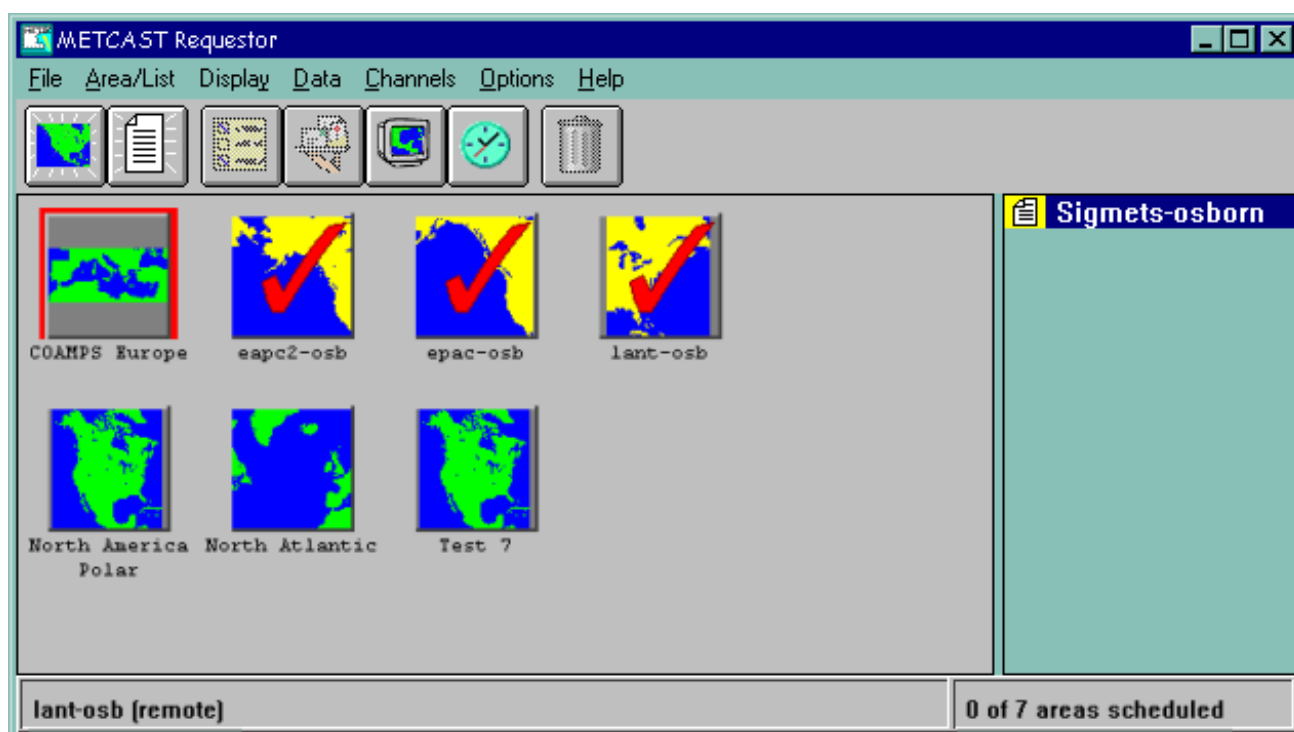


Figure B.12-15. METCAST Requestor Screen Showing Remote List

B.13 Test 13 Output

None.

B.14 Test 14 Output

QuickWeather Configuration

Server

URL

Proxy Server

☒ Use Proxy Server

URL

Port

User ID

Password

Authorization

☒ ID/Password

User ID

Password

☐ Certificate

Certificate ...

Password

User Information

User Name

Phone Number

E-mail Address

OK Cancel

Figure B.14-1. Configure Data Source Dialog for Quick weather

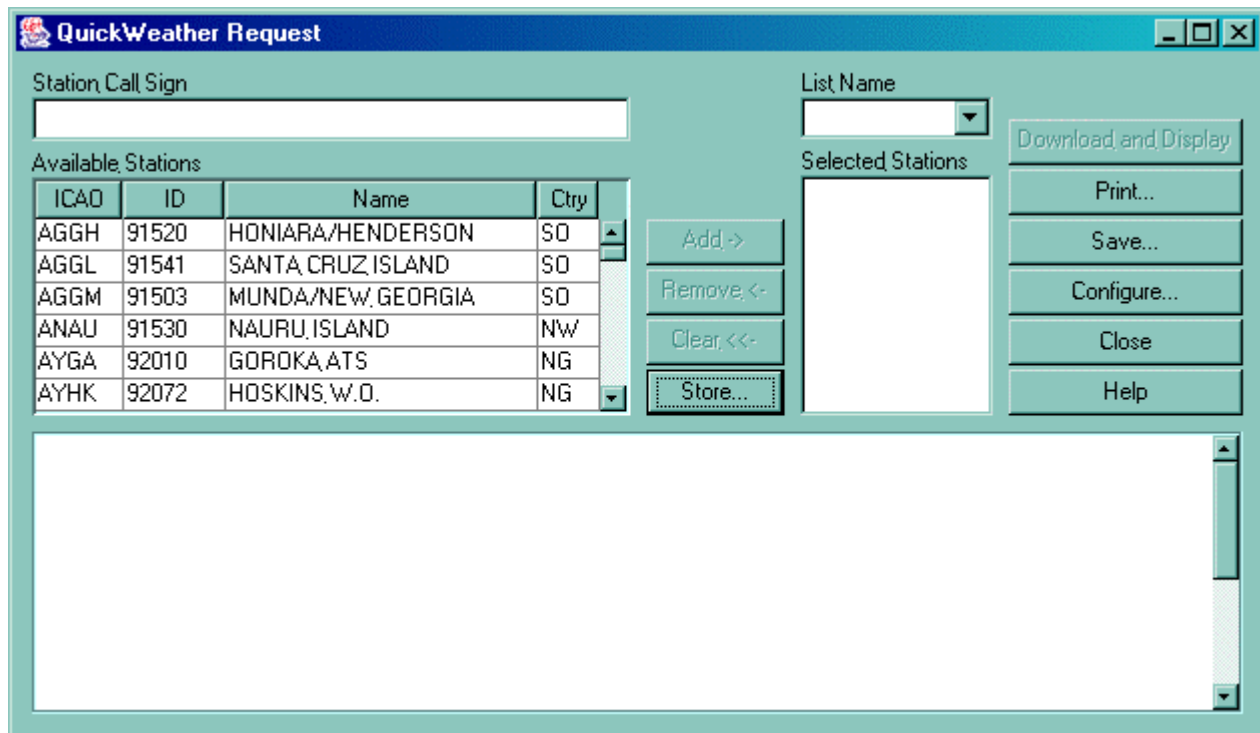


Figure B.14-2. Quick weather Request Dialog

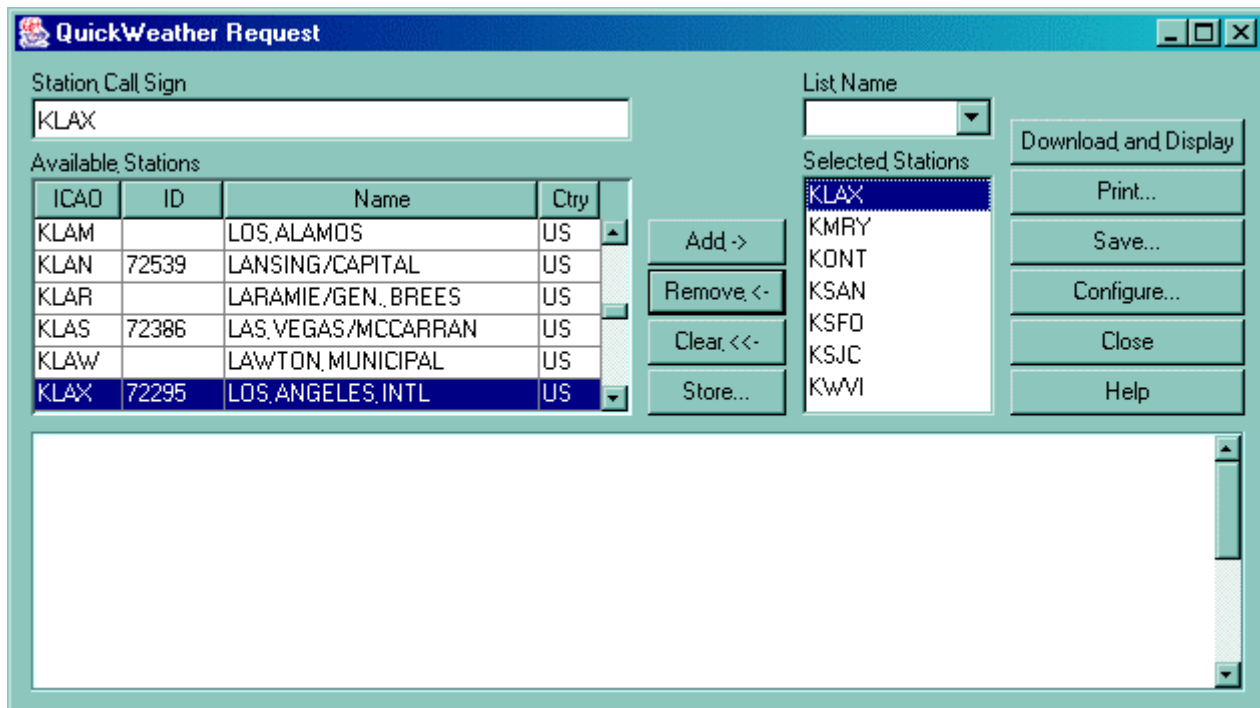


Figure B.14-3. Quick weather Request Dialog Showing Scrolled Station List

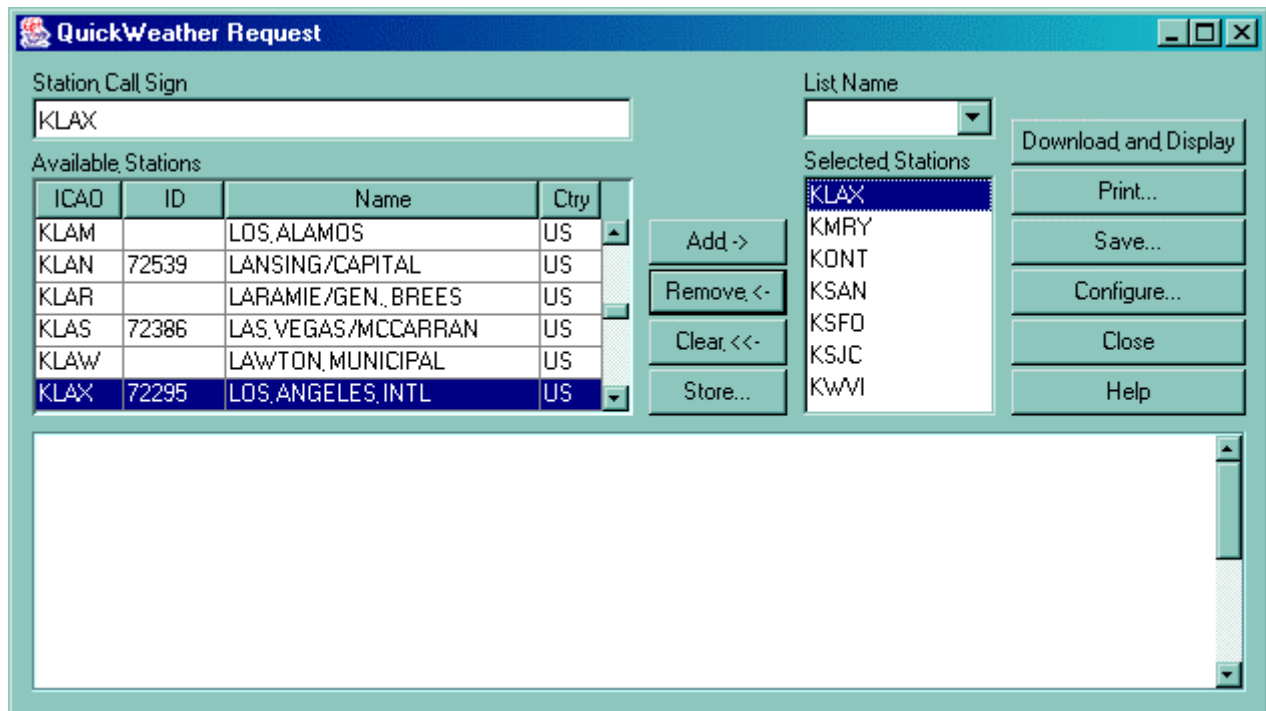


Figure B.14-4. Quick weather Request Dialog Showing Selected Stations

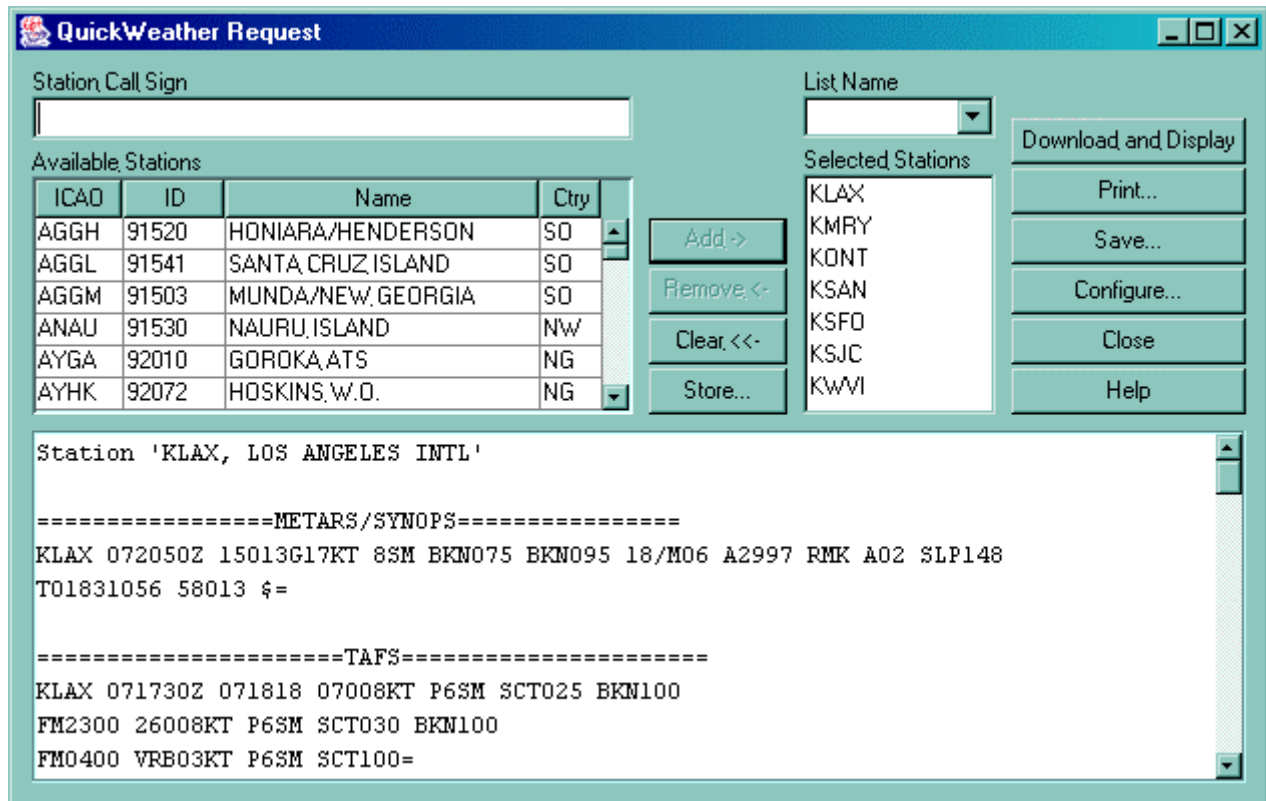


Figure B.14-5. Quick weather Request Dialog Showing Station Data

